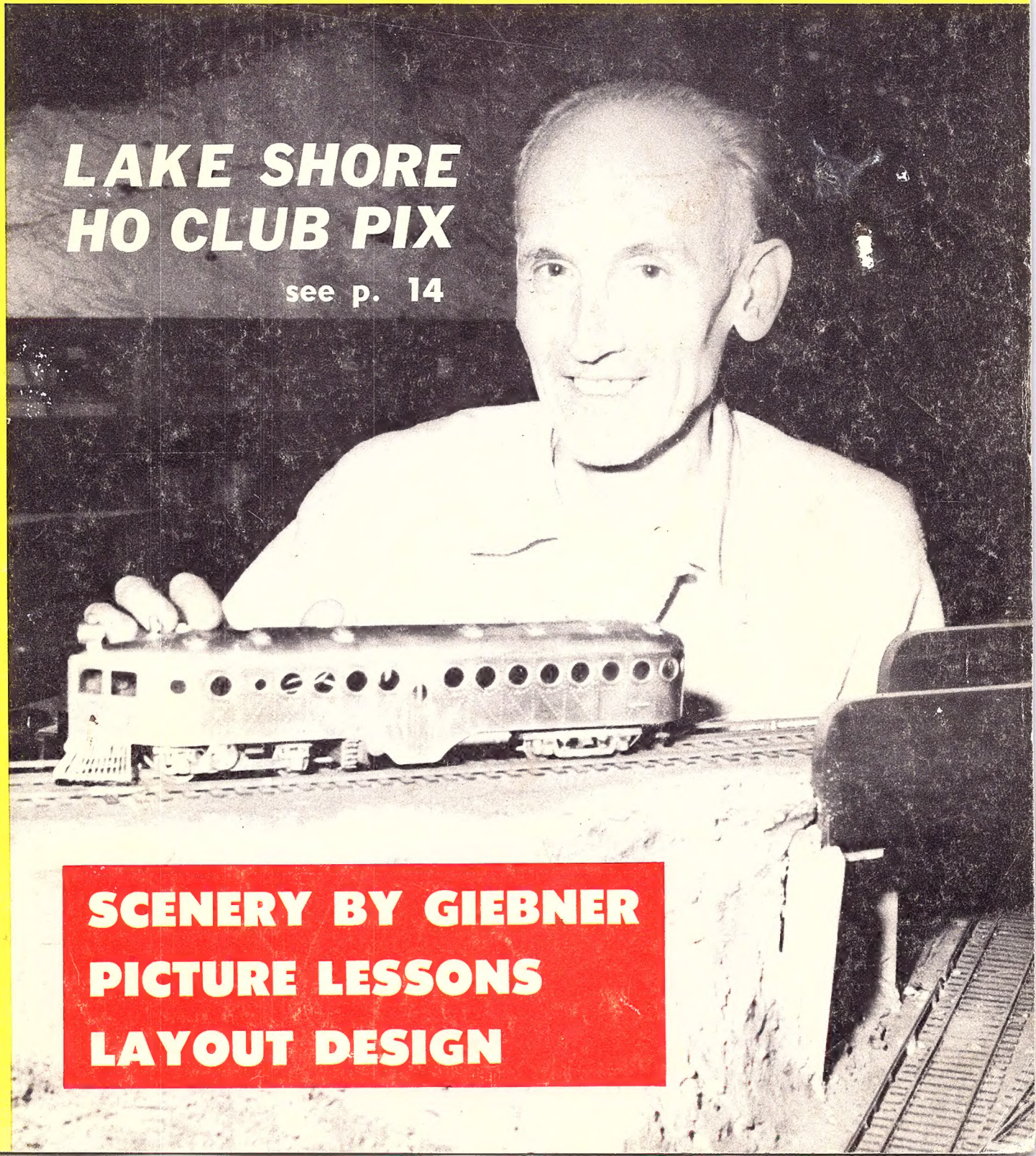
RAILROAD MODEL CRAFTSMAN

APRIL 1956
50 CENTS



LAKE SHORE HO CLUB PIX

see p. 14

SCENERY BY GIEBNER
PICTURE LESSONS
LAYOUT DESIGN

RAILROAD MODEL CRAFTSMAN

Choose From the Nation's Largest, Most Complete Selection of Model Trains

Order with confidence at Hobby House — RENOWN THROUGHOUT THE NATION FOR FAST, RELIABLE, EFFICIENT SERVICE

SAVE at the Hobby House

Save! HO SPECIALS

SPDT Toggle Switch, Momentary Center off ....5 for 2.88
SPDT Toggle Switch, Reg. Center Off ....5 for 1.98
Rail Chief Quality Streamliners: Choice of Baggage, Diner, 28 Rm Duplex, 6 Bedroom—10 Cabin, 22 Room Sleeper, Baggage-Coach or Coach. each (3.95) 2.89
Lounge-Observation. (4.95) 3.50
Good Sprung Streamline Trucks for above cars.....pr. (1.10) .89
Good Sprung Streamlined Trucks pr. ....(1.65) 1.29

HO Ready-To-Run SUPER SPECIALS!

Train sets, cars and locos at UNEQUALLED LOW PRICES. Choose from Hobbyline, Penn Line, Athearn and Fleischmann. Save!! All new; w/our 1 Year Guarantee!!

HO

HOBBYLINE HO SETS

Set 411. Lehigh Valley Diesel Switcher w/3 Leligh Valley Passenger Cars, Track, etc. (29.95)..................19.95
Set of 3 Lehigh Valley Passenger Cars.. 9.95
Set 416. Santa Fe Diesel Switcher w/2 Freight Cars, Caboose, Track, etc. (24.95) 18.75
Set 421. Chesapeake & Ohio Diesel Switcher w/2 Freight Cars, Caboose, Track, etc. (24.95) 17.50
Set 440. 0-4-0 Steam Switcher & Tender, 3 Freight Cars, Caboose, Track, etc. (29.95) 22.95
Set 451. Erie 2-unit Road Diesel w/4 Erie Passenger Cars (green & gray) Track, etc. (41.50) 29.95
Set of 4 Erie Passenger Cars (16.80)...11.95
Set 455. Union Pac. 2-unit Road Diesel w/4 UP Passenger Cars (red & yellow) Track, etc. (41.50) 27.95
Set of 4 Union Pac. Passenger Cars (16.80) 11.95
Set 456. Pennsy 2-unit Road Diesel (Maroon) w/4 Streamline Pass Cars (Silver), Track, etc. (44.95)........32.95
Set of 4 Streamline Pass Cars (Silver) (19.80) 13.95
Set 461. Same as No. 456 except Western Pacific, silver & orange diesels (44.95) 32.95
Set of 4 WP Streamline Pass Cars (19.80) 13.95
Set 466. Western Pacific 2-unit Road Diesel, 5 Freight Cars, Track, etc. (39.95) 26.95
Set 467. Same as No. 466 except Pennsy (39.95) 26.75
HOBBYLINE Power Pack (9.95) only 7.95 w/any of the above.

HOBBYLINE LOCOMOTIVES

Santa Fe Diesel Switcher (16.00).......12.95
Same, Lehigh Valley or C & O (16.00)..11.95
2-unit Road Diesel—Pennsy, black (20.00) 15.95
2-unit Road Diesel—choice of Pennsy maroon, Union Pacific (yellow & red), Erie (green & gray) or Western Pac. (silver & orange) (25.00) 19.95
0-4-0 Steam Switcher & Tender (20.00).16.95

HOBBYLINE SEPARATE CARS

Cabooses (2.95) 1.99
Tank Cars (2.95) 2.29
Hoppers (2.95) 2.29
Flat Cars (2.50) 1.89
Gondolas (2.50) 1.89
Box Cars (2.95) 2.29

ATHERN SET

2-unit Diesel, 3 Streamline Pass. Cars, Track, Santa Fe or Pennsy. (29.95)..24.95
Same, w/dual-powered Diesel, 4 Streamline Pass. Cars, Track, Santa Fe or Pennsy. (34.95) 28.95

GILBERT SETS

With Smoke and Choo-Choo, HO-320, 0-6-0 Switcher Loco & Tender, 2 Freight Cars, Cabooses, Track, etc. (39.95) 33.95
HO-330, 4-6-4 Hudson Loco & Tender, 3 Freight Cars, Caboose, Track, etc. (49.95) 42.50
0-6-0 Switcher (29.95)..................26.50
4-6-4 Hudson (36.95) 31.50

PENN LINE SET

Midget Diesel Switcher, 2 Freight Cars, Caboose, Track, etc. (24.95)........17.95
Penn Line Midget Diesel Kit 9.95

FLEISCHMANN SETS

1325/3G 0-6-0 Tank Switcher, 2 Freight Cars, Caboose, Track, etc. (23.50)...17.95
1365/7G 4-6-2 Pacific Loco and Tender, 6 Freight Cars, Caboose, Track, etc. (44.50) 37.50
Fleischmann 503/110 Power Pack (10.00) 7.95

Operating TURNTABLE for LIONEL or FLYER

25¼" Long. With GarGraves Track. Operates completely by remote control. Rotation 360o in either direction. Wired and completely ready to run. Sturdy. Terrific 29.95
Shipped by express. Send no postage.

SPECIAL TRACKAGE for LIONEL

GarGraves Flexible Track, 3' Sec....... .95
Same, Stainless Steel 3' Sec.......... 1.20
GarGraves Track Pins O or 027, doz..... .25
GarGraves Switches, Rt or L.......ea. 5.50
Century Hi-Speed Switch, R or L....... 6.95
Same, w/electric operation, cntrlr.....10.95
Peare Brass Rail Switch Mounted on wood roadbed. R or L............ 6.95
Peare Brass Rail Flexible Track 3' Sec.. 1.65
Switch Machines: Make Switches Automatic:
Hand Switch Controller (Stand)..... 1.50
Polaris.....ea. 2.25 Lindsay...ea. 2.95
Switch Controllers: Operate Sw. Machines.
Mallory Lever Controller (1.49)..... .79
Toggle Switch SPDT Center Off Mom 5 for 2.88
Jiffy—Operates 7 Switches 2.25
Wood Ties to Match Lionel Metal Ties O or 027, Pkg. of 115 for........... 1.00
Track Mounting Screws, O or 027 3 doz. .50
SOUND DEADENING PULP ROADBED:
Put Lionel O or 027 Track on it. Specify.
Straight Track, 2 sec. length........ .20
Curved Track, 2 sec. length......... .30
Grey Rubber Roadbed, str. or curved, sec. .10
Cork Roadbed, 3' Curvable—"O" sec.... .60
Same for Flyer or 027, per sec...... .50
Over & Under Trestle Set—Hardwood, 10 pcs up, 10 pcs down . . . special... 4.95
Rail Joiners, Rail, Spikes, Everything!

SPECIAL TRACK for FLYER

Brass Rail on Flexible Tie Strip 3'..... 1.20
GarGraves Flexible Track 3' Sec........ .95
Same, Stainless Steel Track, 3' Sec... 1.20
Gargraves Switches, R or L 4.50
Wood Ties to Match AF Track, Box..... 1.00
Bob Peare Trackmaster Switches, Brass rail mounted on wood with Ties. Use with Flyer, GarGraves or Brass Track. R or L 3.65
Tru-Scale Hi-Speed Switches, Same use, highest quality. R or L..........ea. 5.25
Mounted Crossovers, Single, R or L..... 9.95
Plain Roadbed. Put Flexible Track on it. Send 3c for Inf.
Switch Machines Above.

BUILD KITS for Lionel

Easy to Build. Couples with Lionel.
No. 4700 Walthers Pickle Car........ 4.25
Trucks and couplers for above 1.75
ATP Metal side box car, superb detail, scale 4.25
Trucks & couplers for above 1.75 automatic 2.45

BUILD KITS for Flyer

Thomas All Metal Locos. Build for Lionel.
0-4-0 4 whl. Switcher, slope bck tdr....29.95
0-8-0 8 whl. Switcher Kit w/tender.....39.95
2-8-0 Consolidation Kit w/tender......39.95
Shawnee Express or Branch Line Locos...29.95
Every Imagineable Extra in the Reference Catalog for Lionel.
Ambroid quality wood kits, super detailed, knuckle couplers.
ACL Watermelon Car 5.95
AS, Southern, or MKT Stock Car...... 5.95
Winged Snow Plow Kit 6.95

Colorful! All Metal 4-4-0 OLD TIME LOCO

Ready-to-Run with Lionel Trains

Made by Thomas. Has Lionel Sequence Reverse, Knuckle Couplers. Your choice of either 1870 **Shawnee Express**—Red, Green, Black, Polished Brass—or 1900 **Branch Line Special**—Black, Pol. Brass, Smaller Stack. (Each also available in kit at same price for "O" scale. ea. 29.95

COLORFUL! All Metal OLD-TIME CARS

With Knuckle Couplers, Ready-to-Run w/Lionel. 1870 Colorful Passenger Cars (yellow, green or red). Coach, Baggage-Coach, or Baggage w/sliding doors ....ea. 5.50
1869 Classic Pennsy Coach.... 7.50
QUAINT OLD TIME FREIGHT CARS:
Pulpwood Car w/log load...... 4.75
Flat Car w/stakes 4.50
Gondola, wd sides, metal frame. 5.50
4 wheel Old Time Caboose...... 4.95

Quality, Scale BUILDING KITS

For Lionel, O scale or Flyer.
Easy to Build, Very Realistic: By Suydam.
Following are die cut corrugated metal:
No. 01 Furniture Factory—Fine Detail... 5.95
No. 03 Northside Tool Factory—Fine Detail 5.95
No. 05 Black Bart Mine 3.95
No. 07 Trackside Warehouse—Fine Detail 5.95
And these have die cut wood parts too!
No. 010 Water Co. Pump Houses....... 3.95
No. 011 Roadside Sawmill 3.95
No. 061 Interlocking Tower & Shed Kit. 3.95
These are deluxe all wood kits:
Pine Bluff Feed Mill 5.50
Coaling Station. A Beauty! 8.95
Modelhobbies Cattle Pen 3.50
Modelhobbies Tool House 1.25

SALE! Plasticville BUILDINGS

BR-2 RR Trestle Bridge (1.00)......... .79
SG-2 Signal Bridge .... .79
LH-4 2-Story Colonial House (1.29)..... .88
MH-2 1½ Story New England Rancher (1.29) .... .88
FB-1 Frosty Bar (.79) .... .66
V-10 Set of 10 Vehicles (1.49)....... .98
CC-9 Parish Church (1.00) .... .79
C-18 Beautiful Cathedral (1.98)....... 1.59
CS-5 5 & 10c Store, SM-7 Super Market, DE-7 Diner, DH-2 Drugstore (1.00).ea. .79
BN-1 Countryside Barn (1.00) .... .79
BY-4 Farm Animals (1.00) .... .89
RA-6 Railroad Accesories Set (1.00)..... .79
OH His & Her Outhouse .... .15
Fence & Gate Set (.25) .... .15
PB-8 Public Building Set (7.98)....... 6.98

Super Detailed BUILDINGS

Illuminated, all wood, ready built, interior detail & metal figures for Lionel, "O" Scale, or Flyer.
No. 270 News and Frank Stand ..3.00 2.25
No. 271 3-pc Whistle Stop Set ...4.00 2.69
No. 272 Station & News Stand ...4.00 2.69
No. 274 Freight Station 5.00 2.89
No. 275 Diner 5.50 3.69
No. 400 Waiting Station 4.00 2.95
No. 700 Station—News Stand 4.00 2.89
No. 1000 Diner 5.50 3.69

SCENIC ACCESSORIES • ALL Gauges

More Scenery Info & Pix in Reference Cat. Where Choice, smaller items are for HO.
Trees, 3" to 5", 6 per box........... .98
Trees, 5" to 8", 4 per box........... .98
Green shade, Orange, Apple, Cypress, Autumn, Spring, Snow or Assorted.
Landscape Kits, 3" to 5", 19 pcs....... 2.00
Landscape Kit, 5" to 8", 15 pcs........ 2.00
Hedge, Green or flowered, 6 pr....... .98
Ornamental Flowers, 6 Assorted Bags.. .98
LYKEN—Green, or Mixed w/Rust, box... .98
(To make own trees, bushes, hedges).
Permascene, plaster for mts. bag...... 1.00
Landscape Sheets 50" x 18"........ 1.00
Choice of Grass, Meadow, Earth, Cork, Ballast, Snow or Sand.
Same, 50" x 34", Meadow or Grass..... 1.75
Easy-Built Scenic Paper 2' x 5'....... .50
Mountain, Snow, Country or Valley).
Beautiful Scenic Backgrounds. Colorful, 21" x 41½" each. Farm, Town or Mountain. The 3 make panoramic background....ea. 1.00

For LIONEL and FLYER ONLY:

Tunnels—Sturdy, Colorful:
No. 100 Straight 11½" long 1.00
No. 200 Straight 15" long 1.98
Grass, Bag .... .45 Coal, Bag .... .35
Ballast, Bag ... .35 Gravel, Bag... .35
Earth, Minerals or Snow, bag......... .35
Steel Trestle Bridge 2.50
Set of 9 handpainted RR figures....... 1.98
Deluxe All Metal Signs R Figures:
R150 Suburban Bus Stop Scene 7 pcs... 1.25
R 90 "O" Signal & Signs 8 pcs........ 1.59
X 6-7 "O" Railroad Signs, 5 pcs...... .79
10 Colorful Buildings on heavy cord stock. PC Cutout Book No. 1........ 1.00
¼" Scale, Colorful, Metal 3 Unit Truck. 1.19
Dinky Toys Catalog, complete stock..... .10

LIONEL at Special Prices:

A Complete Lionel Stock All 12 Months.
2028 Pennsy GP-7 Switcher (18.50).....17.50
2353 SF Twin Dsl. (2 motors—$50).....39.95
2356 Same as above—"Southern"......39.95
1022 Manual Switches (5.95).......pr. 4.95
3469 Operating Dump Car (8.50)....... 6.88
362 Operating Barrel Loader (8.95)..... 6.95
450 Oper. Signal Bridge (6.95)........ 5.95
364 Oper. Lumber Conveyor (14.95).....12.95
110 Over & Under Trestle Set..........5.95
1122 Auto. 027 Switches (13.95).......10.95
Auto. 027 Wide Radius Switches (10.95). 9.95
042 Manual Switches pr. (11.50)....... 9.75
760 072 Wide Rad. Track (.45).....ea. .35
736 2-8-4 Super Loco (43.50)..........37.50
646 4-6-4 Big Hudson (37.50)..........34.95
2338 Diesel Sw. w/Horn (2 colors).....25.00
41 Yard Goat Diesel Sw. (10.95)....... 9.50
50 Action Gang Car (7.95)............ 6.88
3562 Oper. Barrel Car (8.95)......... 6.95
6414 Auto Transport Car (8.95)....... 7.95
6415 3-Dome Tank Car (5.95)......... 4.88
6457 Lighted Cab. 2 couplers ($6)..... 3.49
6465 2-Dome Tank Car (4.95)......... 3.25
6464-50 M&StL Box Car (5.95)....... 4.75
480-25 Conversion Couplers ....ea. .55
6462 Gondola w/barrels (4.95) 3.50
ZW Transformer (32.50) 28.50
Ribbonrail Track Cleaning Car......... 7.50

OPERATING HANDCAR OR TROLLEY

Both run alone. Section hands pump round track.
For Lionel or Flyer (Specify).........ea. 4.95

AMERICAN FLYER Bargains

371 Silver Switcher (25.00) 19.95
372 Yellow U.P. Switcher 25.00
3745 GP-7 Twin Switchers w/horn.....33.50
293 4-6-2 Loco w/smoke, choo........24.75
346 0-8-0 Switcher (40.00)............30.00
561 Diesel Billboard Horn (6.95)...... 5.95
No. 1 Car Assortment (4 Cars—18.95)....12.95
779 Oil Drum Loader (12.95) "Louie".. 9.95
977 Action Caboose (5.50) 4.50
925 Tank Car (4.50) 3.95
923 Refrigerator Car (4.50).......... 3.75
929 Cattle Car (4.75) 3.95
928 Log Car (4.50) 3.75
945 Boom Car (5.95) 3.95
942 Box Car (4.50) 3.75
19B Transformer 300 Watt (29.95).....22.95
18B Transformer 175 Watt (26.50).....19.95
720A Switches Elec. (15.95) 14.95
Straight or Curved Track .... .25
799 Talking Station (19.95) 15.95
Santa Fe 4-8-4 w/tender 179.50
4713 Sante Fe 3 Unit (55.00).........47.50
480 Silver Flash B Unit w/roar.......14.95
Every item in stock all 12 months.

O SCALE

O CUSTOM BUILT LOCOS & CARS

2R unless otherwise stated. Write for list.
Monon G.M.C. Switcher 44.50
GP-7 Unpainted Diesel 149.50
Pennsylvania B-6sb 79.50
Super Varney 10 Wheeler 69.50
Erie F3 A &B 124.50
NYC—E6 A & B 140.00
GN E7A (Outside 3rd) 75.00
Set of 7 GN Passenger Cars 195.00
Southern Pacific 4-8-2 ....275.00
Lionel 700E 2R 195.00
All Nation Mountain 99.50
C & O Super 1600 Articulated 550.00
Huge Assortment of Freight Cars.

O LOCO KITS 2 or 3R

South Shore Electric 19.95
Imp Mikado 2-8-2 .... 37.50
Can Pacific Hudson 4-6-4 .... 39.50
Thomas 3R 0-4-0 Switcher 29.95
Thomas 0-8-0 or 2-8-0 .... 42.50
All Nation F3 "A" Castings 23.00
All-Nation F3 "B" Castings 17.95
Power Truck for above 15.95
Kemtron GP-7 or Alco Castings....... 39.95
All-Nation 10 Wheeler 44.95
Lobaugh Greenbrier 4-8-4 ....139.50
Hines 0-8-0 Switcher 52.50
Dual Powered "Sharknose" 89.95
Bucyrus Wrecker Crane (new) 99.50
NYC Niagara 219.50

O SCALE CAR KITS

Wood Open End Combine 5.95
All wood Open End Coaches 5.95
Lobaugh Reefers, Gondolas, Tanks, Auto Cars—assorted ....ea. 8.95
J.C. Passenger Cars (Assorted) 5.95
Thomas 6 Dome Tanks 6.95

Send for Descriptive & Illustrated

CATALOGS

and Special Price Lists

Our New HO Scale Catalog

Over 64 illustrated full pages. Let this book be your guide. Handy! Only 35c

HO CUSTOM BUILT LOCOS:
HiQuality! Guaranteed! Send for Complete List!
Penn Line T-1 4-4-4-4 Articultd....... 49.50
Winton C&O 2-6-6-6 Allegheny 179.50
Varney 4-6-4 Hudson 59.50
Penn Line 4-4-2 Atlantic 29.95
Penn Line 4-6-2 Pacific 37.50
Mantua W&A prototype General 4-4-0.. 49.95
Bowser 4-6-2 Pacific, added detail.... 34.50
Burlington E-7 Passenger "A" Diesel.. 27,50

Over 10,000 Items, all gauges More Than 50,000 Parts

PARTS, PARTS, PARTS you need are more than likely available at the HOBBY HOUSE. Our stock of parts is unequalled. **DECALS,** over 3000. Decal Catalog .... .25
Reletter your cars, locos.
Comp Set Pass or Loco .60 5 for 2.40
Comp Set Freight Cars .40 5 for 1.60
Decal "Set"—makes 'em lifelike, permanent .... .50
Engrs Cap "Model RRing is Fun" (size) 1.25

Going to be near Cleveland. Come see our huge store, downtown next to the Telephone Bldg. You can see for yourself why Our Huge Inventory is Legend to Model Railroaders Everywhere. We're open Monday through Saturday 9:30 to 6:00; Monday Nights till 9:00. Choose from our amazing selection, our many values, Phone SUperior 1-3210.

IF IT'S ADVERTISED . . . IF IT'S AVAILABLE ANYWHERE . . . WE HAVE IT!

LEONARD M. BLUM'S HOBBY HOUSE INC.
We Will BUY or TRADE Your complete railroad
800 HURON ROAD CLEVELAND 15, OHIO

GUARANTEED FAST, SAFE DELIVERY anywhere in the world
Your ORDER MAILED the SAME DAY It's RECEIVED!!!

BLUM'S
HOBBY HOUSE, Inc.
Dept. RMC-3
800 Huron Road
Cleveland 15, Ohio

Please send me:

I Have:
☐ HO Ready-To-Run
☐ HO Scale
☐ American Flyer
☐ Lionel O
☐ Lionel 027
☐ O Scale

I want Reference Catalog:
☐ HO Ready-To-Run 3c
☐ Lionel and every extra at 25c
☐ American Flyer and extras at 25c
☐ New Huge HO Scale Catalog, 35c
☐ American Flyer Bargain List 3c

.... $..............
.... $..............
.... $..............
.... $..............
.... $..............

Minimum Order on 3 ft. Track Sections.—6 Secs.
☐ Money Order (Use separate paper if necessary) Total..............
☐ Check Post. and Ins. —40c up to $10.00. 65c over $10.00 Free in Ohio.

Name ....
Address ....
City .... State..............
☐ Enclosed $1.00 for Complete 256 Page Hobby Catalog. Refundable.

Vol. 24, No. 11 April, 1956

RAILROAD MODEL CRAFTSMAN

Including "The Modelmaker" (Est. 1924)
and "Miniature Railroading" Magazines

For All Model Rails

• THE CREW •

CHARLES A. PENN, *Editor and Publisher*

HAROLD H. CARSTENS
Managing Editor

B. M. HUMPHREY
Circulation Manager

ROBERT MacDONALD
Editorial Assistant

EDWIN P. ALEXANDER
Research Editor

Advertising Representatives

WEST COAST
JOSEPH MERVISH
6716 Gentry Avenue (Box 3115)
North Hollywood, Calif.
Phone: STanley 7-7556

MIDWEST
SOL SHULMAN
2656 W. Summerdale Ave.
Chicago 25, Ill.
Phone: UPtown 8-4139

Contents

Lake Shore Model Railroad Association HO Layout 14
Earth Type Bases For Model Structures—by Lloyd Giebner 18
Long Island Consolidation Camelback In HO—by Frank Gunther 22
Union Connecting Railroad Layout Plan & Photo 26
RR Cafe & Boarding House—by Joe Wilhelm 30
Denver & Rio Grande "Montezuma" On3 Plans—by J. L. Knight 33
Trolley Fun At The Central Jersey Model RR Ass'n Layout 36
Corners And Curves—by the Layout Doctor 38
Railroad Operation—The Way Freight—No. 2A 40
Your Nabor's Pike—Pictures From Our Readers 42
Ready Track Central RR—For Non-Sectional Track 44
The Bantam Rooster—Low Cost Narrow Gauge Motive Power 46
PICTURE LESSONS IN MODEL RAILROADING—No. 4—Caboose 65

Departments

Safety Valve 6
Model Railroad Timetable 8
Dispatcher's Report 10
Trouble Shooting 50
Test Track 53
Swapper's Column 56
Off'n The Table Top—Lewis 58
Dealer Directory 61

THE COVER: A brand new Kidder McKeen car undergoes operating tests on the Union Connecting layout under the watchful eye of Al Gruenwald. There's more UCON on page 26 and a Test Track review of that brass McKeen car on page 53. Staff photo

ABOUT OUR ADVERTISING: We believe that every advertisement in this issue is backed by a responsible individual. Every precaution is taken to admit reliable firms only. To make doubly sure, we will make good any loss sustained by readers by trusting any irresponsible or misleading advertisements. Also, when called upon, we will adjust differences that may occur between readers and responsible advertisers. Readers will be fully protected except when due to honest bankrupts sanctioned by the courts. Notice of complaints should be sent to us within one month of transaction and to identify it, you should mention Railroad Model Craftsman when writing the advertiser.

Published monthly by Model Craftsman Publishing Corp., 1140 East West Highway, Silver Spring, Maryland. Editorial, Advertising and Circulation offices: Route 17, Ramsey, New Jersey. Charles A. Penn, President and Treasurer, Helen M. Penn, Secretary. Entered as second-class matter, August 14, 1953, at the Post Office at Silver Spring, Md., under the act of March 3, 1879.

Price 50c per copy; subscription $5.00 per year in the United States and Possessions. Canada, Foreign and Pan American Subscriptions $5.50 per year. The contents of this magazine must not be reprinted without permission.

Payment is made upon publication. Unless stated otherwise by contributor, we will assume no remuneration is expected. Copyright 1956 by Model Craftsman Publishing Corp. Printed in U. S. A.

A Letter From The Editor

THE Union Connecting Railroad is soon to join the Cripple Creek, the Virginia & Truckee, the Monson, and the Indiana Railroad. The famed O gauge layout of the New York Society of Model Engineers, Inc., has to be torn down to make way for a new United States Post Office, needed to handle the increased business expected when the Erie moves into to Lackawanna Terminal at Hoboken, N. J., where the N.Y.S.M.E. has had it's quarters for the past ten years.

For the one hundred members, the news came as a blow. Nearly ten years in construction, fourth Ucon layout had developed into a real railroad. Scenery had progressed rapidly in the past few years, most of the trackage was down, and miles of wiring under the layout had been completed and was functioning well.

The Union Connecting line had its faults, just as most of the big railroads do. But there were few of any model pikes anywhere to match it in scope or complexity. Even more important, the UCON had developed a personality that made it seem a living thing not only to its members but to thousands of New Yorkers as well.

It's not easy to find quarters for a club of 100, whose members also enjoy other model hobbies as well. But we know that the fourth UCON will soon make way for an even finer fifth UCON somewhere in the New York Metropolitan area. And we know that the N.Y.S.M.E. will do all in their power, comes next show time, to put on some kind of a public showing.

It's that kind of a club. We wish them luck.

Hal Carstens

Managing Editor

Next Month—

ONE of the rarer locomotive types is the Jubilee which found it's greatest popularity in Canada. Bill Schopp tells how to build a fascinating HO replica of this CPR engine that is different . . . Deadlines permitting, there will also be news of what's new from both the Hobby Industry Show at Grand Rapids plus the big Toy Fair in New York. And at this writing, we expect to see a number of the better known manufacturers represented at the New York Show. It's an issue you won't want to miss.

WORLD'S LARGEST HOBBY MAIL ORDER HOUSE ... SINCE 1931

... the HOBBYIST'S SUPERMARKET of SUPER SAVINGS!

NEW AND OLD ITEMS ... if available anywhere WE'VE GOT EM!

ALMOST EVERYTHING advertised in this magazine can be ordered from AHC

Use Convenient Order Blank

LOOK! Only AHC Gives You All These Terrific EXTRAS

1. 14 Day MONEY BACK GUARANTEE on unused purchases.
2. No Postage or packing charges for orders of over $2.00 (include 25c if order is under $2.00). We insure safe delivery ANYWHERE IN THE WORLD. Outside of U.S.A. (except APO & FPO) add 10% for postage (minimum 50c).
3. Membership in the "GOLDEN SPIKERS OF AMERICA," the club that keeps you up to date on railroading and SAVES YOU MONEY ON YOUR PURCHASES.
4. No "minimum" orders. Any order is welcome.
5. All orders processed in 24 hours. Mail addresses coast-to-coast airmail your orders to our N. Y. office for immediate shipment to you.
6. Most complete stock available in America. If it's advertised we can usually supply it.
7. Competent understanding of your problems.
8. 64 Page giant 2-color illustrated catalog FREE with every order.

MORE for your money

SATISFACTION GUARANTEED OR YOUR MONEY BACK

HO GAUGE

LOCOS & POWER UNITS

ATHEARN - GLOBE
R.D.C. (1, 2, 3 or 4) 14.95
R.D.C. (Dummy—1, 2, 3 or 4) 6.95
Sante Fe Globe F7 Dual Powered 14.95
U.P. F7 Dual Powered 14.50
F7 Dummy Units ... Unpainted
A Unit — .98; B Unit .89
F 7 Assembled & Painted
A Unit 2.29; B Unit 1.89
Choice of: S.F., Pa., So. Pac.
F 7 Powered ... Kits A or B
I-Drive — 11.95; Dual Drive 14.95
F-7 Pwrd., Assembled A or B
I-Drive — 14.95; Dual Drive 17.95

BOWSER
Articulated 4-6-6-4 52.50
Pacific 4-6-2 with tender 32.50
Artic. Tender (Semi-Vanderbilt) 8.50

ENGLISH
Asmbld. 1200 HP. Diesel Switcher 16.00
Alco Rd. Diesel, 8 wl. dr. (A or B) 19.50
Alco Dummy Unit (A or B) 7.50
Pacific 4-6-2 19.95
Mikado 2-8-2 19.95
HObbyline Alco Diesel (powrd) 12.95
Alco Diesel (dummy unit) 5.95
Yardbird 0-4-0 14.95

FLEISHMANN (Ready to Run)
O-4-O Loco 9.95
Baldwin Dsl. Switcher 14.95
O-4-O Electric 16.00
Moqul Loco 17.95
O-4-4-O Electric 19.95
Moqul 17.95
Pacific, with Tender 19.95
0-6-0 Loco 12.95

HOBBYTOWN
8 Wheel Drive for Globe F7 14.95
Alco 1600 hp. Rd. Switcher DC-71 24.95
Alco 1600 hp. Dual Drive Unit 6.00

Buried In This Ad are most of the new items. Sometimes there isn't time or space to list all of them. But, if available anywhere, we have it.

Alco 1600 hp. 123K 27.50
Multi-Drive A Unit for 123K 13.95
Multi-Drive B Unit for 123K 12.95
Alco & EMC 2000 hp. 12 Wh. Dr. 29.95
Dummy B Unit E7 for above 10.95

KEMPTRON
14 Wheel Tender 19.95
Shorty Vanderbilt 7.50
Thomas Flyer 1907 14.95

LINDSAY
Alco 1600 hp. Diesel - A 13.95
B - 13.95 Dummy B 4.95
Power Truck Kit for Globe F7 9.95
Powertruck for RDC 12.95

MANTUA
Shark Nose Rd. Diesel A or B Unit 14.95
Shark Nose B Dummy 7.95
Shark Nose Dual Drive 9.95
Booster O-4-O 9.95
Shifter O-4-O 15.95
Valve Gear Kits 2.95
Assembled Valve Gear 4.95
Little Six 0-6-0 12.95
Big Six 17.95
Pacific 4-6-2 24.95
Mikado 2-8-2 27.95
Moqul or Belle of 80's ea. 29.50
General or Rdhse. Goat -- ea. 24.50

PENN LINE
Pacific K4 with Tender 34.50
Atlantic with Tender 29.50
Consolidation with Tender 32.50
Mikado LI 34.50
TI Articulated 4-4-4-4 39.50
Midget Diesel Switcher 9.95
Midget Diesel Switcher Assem. 14.50
Decapod 34.50

PENNA. SCALE MODELS
PCC Street Car 16.95
IRR Street Car 22.50
IRR Trailer 12.50
Brill Suburban Trolley 17.95

PITTMAN MOTORS
DC 60 5.00 DC 80 6.00
DC 71 6.50 DC 94 7.50
DC 91 7.50

VARNEY
O-4-O Dockside 15.00
Brute Diesel A or B 15.00
Brute Diesel Dummy A or B 1.25
GM 1000hp Diesel Switcher 19.75
Casey Jones 10 Wheeler 18.00
Casey Jones with Tender 22.00
Drive Unit; Single 9.50; Double 14.95

MISCELLANEOUS
DC 60(12V.)Motor—Model Pike 5.00
DC Super Dyn. Accessory Motor 2.50
ROBICO Stubby 16.95
JERRY MARTIN Diesel Centriclutch 3.95
MODEL DIE CAST 0-6-0 13.50
MODEL DIE CAST 4-4-2 Atlantic 19.95
MODEL DIE CAST Yard Hog 0-6-0 10.50
WALTHERS Shuttle Jack 21.95

BERGEN PACER PACKS
Mono - Pacer 15.95
Duo - Pacer 32.95
Trio - Pacer 39.95

POWER PACKS-CONTROLS

MODEL RECTIFIER CORP.
Throttle "Pulse" Pack 12.95
Train Pack 9.95
Dual Pack 29.75
Tri Pack 42.95
Model Meter Pack 25.50
Model Pack 22.75
Cab Control Unit 8.50
Model Adapter 9.25
Selenium Rectifiers: 2 Amp. 4.50
4 Amp. 6.45 6 Amp 7.95

SCINTILLA
Throttle Control Handle .75
Unipack 10.95
Electro Pack Sr. (3 locos) 21.45
Block Control 8.50
Multipack Sr. 37.95
Power Kits: 2 Amp 13.95
4 Amp 19.50 12 Amp 24.95

MISCELLANEOUS
Powerpacks: Herkimer 10.95
Varney, Hobbyline or Tyco ea. 9.95
Tyco Master Pack 19.95
HO Rheostat (Ohmite MT-40) 5.65
Lever Action Rheo (Bob Peare) 5.45
Circuit Breakers 3 or 5 amps. .50
Jiffy Switch Controller 2.25
Acme Switch Controller .98
0-6 or 0-20 DC Amp Panel Meter 3.00
0-15 DC Voltmeter Sq. Panel Type 3.00
TOGGLE SWITCHES:
SP-ST $ .70 DP-ST .80
DP-DT .95 SP-DT .95
DP-DT center off position, Reverse 1.40
SP-DT mom. (1 hole mounting) 1.25

HO ROLLING-STOCK

ATHEARN
40' BOX CARS ea. 2.50
El Capitan; Grand Canyon; Scout Chief; Super Chief; ACL; CB&O; C&EI; C &NW; CN; CP; Erie; FEC; GM&O; GN; IC; DL&W; NP; Monon; NYNH&H;PM; RI; SAL; SP; UP.
40' SPECIAL BOX CARS ea. 2.95
B&O Sentinel; B&O Time Saver; C&O Luminous; NYC Pacemaker; SP Overnight; Timken RF Red, Yellow or Silver; Western Pacific; MP Eagle; NC&ST. L.; State of Maine.
50' AUTO ea. 2.75
Super Chief; El Capitan; Scout; Grand Canyon; Monon; KCS; SSW; MKT; Chief A.T.S.F. Exp.
40' FLAT CARS ea. 1.85
C & NW; Cinchfld; Grand Trunk
50' FLAT CARS ea. 1.95
Southern; U.P.; Erie
REEFERS ea. 2.75
Passenger Cars ea. 4.95
MDT; Ill. Central; Burlington; ART; NP Armour; FDEX; ART/MP; WFE;PFE; Swift; State of Maine.
Rd. Roof Cars; 40' Box ea. 2.50
40' Auto ea. 2.65; 50' Auto ea. 2.75
DT&I; Pennsy; SAL; N&W
TANK CARS ea. 2.50
Single Dome Mobilgas; SP Gasoline Svc; SP Diesel Svc; Union Pacific; Shell; Texaco; Roller Freight
TANK CARS (3 Dome) ea. 2.75
Union Oil; UTLX; Deep Rock; Shippers
TANK CARS ea. 2.40
Shorty Atlas; Magnolia; Crystal
Wrecking Crane (Erie 200 Ton) 8.50
Pulpwood Car 2.25

AMBROID
G.N. Express or Unicel Reefer 3.50
Stock Car or BM Snow Plow 3.00
Watermelon Car 3.00
Open Platform Coach, Baggage or Combination Car ea. 3.95

AUTHENTICAST
Magor Dump Car 4.95
Slag Car 3.00
Depressed Center Flat Car 2.50

AYERS
Flat Car 2.25
Gondola 2.35
High Side Gondola 2.45
Hopper Bottom Gondola 2.55

BINKLEY MODELS
PASSENGER CARS ea. 4.95
1880 Coach; 1890 Exp. Bag; 1890 Coach; C.P. Coach; U.S. Postal; 1864 Sleeper.
1850 Pay Car 3.95
1870 Baggage Mail 4.50
1900 Chair Car 5.50
1890 "Shorty" Observation 5.75
Business Car 5.95
FREIGHT CARS:
Col. Midland Wood Box 2.75
Overland Despatch Wood Box 2.75
D & RGW Wood Stock Car 3.10
M.P. & A.T.&S.F. Wood Stock 3.10
N.H. Box Car 3.35

CENTRAL LINES OLD TIMERS
1863 B. O. Baggage 40' 2.90
1908 Observation (65' or 75') 4.80
OLD TIMERS ea. 3.95
Va. & Truckee Combine 45'; 1898 Open End Combine 51'; 1898 Baggage & Smoker 55'; CRR or NJ 50'; 1898 Open End Coach 50'; 1908 Archwindow Coach 65' or 75'; 1898 Business Car 55'; Wagner Sleeping Car; 1863 BO Coach 45'; 1863 BO Combine 50'; 1898 Bag & Mail 50' 1886 Combine

HERKIMER (OK)
80' Astradome (streamline) 5.45
80' Observation (Streamline) 5.45
80' STREAMLINERS ea. 4.45
Coach; Baggage; Baggage-Coach; Sleeper; Diner; Postal-Baggage.
60' Astradome (Shortys) 4.95
60' Observation (Shortys) 4.95
60' STREAMLINERS ea. 3.95
Coach; Baggage; Baggage-Coach; Sleeper; Diner; Postal-Baggage.

HOBBYLINE — ENGLISH
Combine or Coach ea. 3.95
GONDOLAS ea. 1.95
Wabash; Erie; P.R.R.; P.&L.E.; ACL; NKP or South Shore.
FLAT CARS ea. 1.95
Reading; PRR; UP; GN; Soo; L&N.
BOX CARS ea. 2.50
ACL; Can. Nat.; WM; DL&W; SP; NKP; PRR Caboose (Penn. or unlettered) 2.95

J-C MODELS
Observation Car 3.50
$2.95 ea: Silver Sides; NYC Postal; NYC Baggage; Penn Baggage; N&W Baggage & Coach; NYC Bagage & Coach; Penn" & Coach Lounge; N&W Coach; NYC & Lounge; N&W Coach; NYC Coach; Penn Coach; Penn Modernized Coach; 12 Sec. Pullman; NYC Diner ea. 2.95

LACONIA
Sierra Combine 3.25
Reefers: Dry Ice, Cent. Vt. Milk, Rut. Milk, Chat. Mar. Wine ea. 1.75

Ralston Purina 2.25
Penna. 70 Ton Hopper 1.50
Penna. Mill Type Gondola 1.50
PASSENGER CARS ea. 2.75
Pullman Std. 80'; 12 Sec. Sleeper; C&O Coach 80'; NYC Comb. Baggage & Smoker 80'; 12 sec. Std. Pullman " 80'; Std. 80' Coach; Std. 80' Comb. Baggage-Smoker
REEFERS ea. 2.50
Goetz Beer; Maine Potatoes; Tivoli Beer; Bullfrog Beer; Columbia Soup; Merchants Biscuit; Kraft Cheese; Peerless Beer; Libby's Pickles; Page Milk

MAIN LINE
50' Reefers --- less tks. --- ea. 2.95
Express—Renkens Milk; PFE Sheffield Farms; Penn Exp; Milw; Basic (rd.rf.) unpainted; G.N.; N.P.; Basic (flat roof), Menasha
36' Reefers --- less tks. --- ea. 2.85
Pvt. Owner—Chrisco; Decker Meats; NRCC Bananas; Budweiser.
Palace Poultry Car --- less tks. --- 2.75

MANTUA
REEFERS ea. 2.65
Borden's; Burl; Crazy Crystals
GONDOLAS ea. 2.25
Penna; T&P; B&O; R.I.
STOCK CARS ea. 2.25
A.C.L.; M.K.T.; M.P.
BOX CARS ea. 2.25
W.M.; G.M.&O.; G.A.; M.C.; M.K.T.; G.N.
Flat Car 1.75
8 Wheel Caboose 3.25
4 Wheel Bobber Caboose 1.95
Streamline Coach or Combine ea. 4.95
Observation 5.95
Baggage 4.95
Liting Kit for Pass. Cars 1.75

SILVER STREAK
BOX CARS ea. 2.95
Minn & St. L; Savannah & At; Frisco Minn. Mining; Union Pac; D&R GW Auto
REEFERS ea. 2.95
AT&SF; Green Bay & West; Oscar Mayer; Swift; No. Pac.; MDT (NYC); C.&R.
Gondola N. Y. C. 2.75
Gondola Nickleplate 2.75
WORK CARS ea. 2.95
Bunk; Commissary; Supply; Engineering
CABOOSE CARS ea. 3.25
B&O; So. Pac; Un. Pac; 4 WI Bobber Bay Window; MP Drovers; Combination
Caboose Cars ea. 3.50

ULRICH
COMPOSITE GONDOLAS ea. 2.50
Rock Is; Jersey Cent; Lehigh Valley; Penna; Nor. & West; At. Top. & Santa Fe
GEN. SVC. GONDOLAS ea. 2.90
So. Pac; Un. Pac; Col. & So. Burlington; Utah Coal Route; Great Northern; Minneapolis & St. Louis; Soo Line
OUTSIDE BRACED BOX CARS ea. 2.90
So Pac; Pere Marquette; Boston & Maine; Great Northern; Del. & Hudson; At. Top & Santa Fe; Den. & Rio Grande; La. & Ark.
OUTSIDE BRACED CATTLE CARS ea. 2.75
Chicago; St. Paul; Minn. & Omaha; At. Coast Line; Penna; Chicago & N'western
WOOD SIDE BOX CARS ea. 2.50
Texas & Pac; Delaware; Lack. & Western
FLAT CARS ea. 2.25
Nashville; Chat. & St. Louis; So. Pac; Texas & Pac; Canadian Pac; St. Louis; Southwestern; Soo Line
HOPPER CARS FLAT END ea. 2.90
Del. & Hudson; Leh. Valley; Reading; W. Md
HOPPER CARS FLAT END ea. 2.90
Santa Fe; B&O; Rock Is; Louisville & Nashville; Mo-Pac; NYC; Erie; Frisco
Track Cleaning Car 1.75
Norfolk & West. Peaked End Hopper 2.90

VARNEY
STREAMLINE PASS. CARS ea. 3.50
B&O Coach; UP Coach; Penn Comb; Penn Coach; SP Comb; SP Coach; Ill. Central Comb; Ill. Central Coach; Great Northern Coach, Great No. Combination
STREAMLINE PASS. CARS ea. 3.95
Penn Observ; SP Observ; Ill Central Observ; Great Northern Observation
40' FLAT CARS ea. 1.90
Pa., S.P., A.T.S.F., NYC, No. West.
TANK CARS ea. 2.50
Sinclair; UTLX; Texaco; GATX, ATSF, Koppers or Carbide & Carbon ea. 2.25
REFRIGERATOR CARS ea. 3.35
Maine Potato; Can. Nat'l; Burlington; NYC (MDT); Gerbers Baby Foods; No. Pac; St. Louis "Reefer"; Wabash Flag "ART"; Santa Fe "El Capitan"; Pac. Fruit Exp.; Old Dutch Cleanser; Blatz Beer; Fairmont Butter; Carnation Milk; Pabst Beer, Schlitz Beer.
COVERED HOPPERS ea. 2.35
Monon; NY; Nkl. Plate; Pa; Del & Hud.
HOPPER CARS ea. 2.35
Virginian; Penna; Burlington; So. Pac; Chicago & E. Ill; Central of Georgia

FLAT CARS ea. 2.45
U.P., Pa., B&O, S.F., No.Pac., EJ&E
BOX CARS ea. 3.50
B&O "Time Saver Svc"; Penn "Merchandise Svc"; Mo. Pac; Frisco Fast Freight; MKT Katy; West. Pac "Feather"; NYC "Pacemaker"; NC & St. Louis "Dixieland"; Santa Fe "Super Chief"; Un. Pac. Buffalo Creek; West India Fruit
GONDOLA CARS ea. 1.90
Penna; So. Pac; Den. & Rio Grande; Mich., EJ & E.
CATTLE CARS ea. 2.25
Penna; NY Central; Santa Fe; Un. Pac; Ill. Cent., A.C.L., T & No.
Standard Caboose 3.25
Bay Window Caboose 3.50
3 Ore Car Train 2.90
Auxiliary Water Tank Car 2.25

BRAND NEW GLOBE CARS

KITS .98
Unpainted. Coach or Baggage Mail
KITS 1.29
Unpainted. Vista Dome or Observ.
KITS — DECORATED 1.98
Pa. or S.F. Coach or Baggage Mail
KITS — DECORATED 2.29
Pa. or SF. Vista Dome or Observ.

NO MINIMUM ORDER

14 Day FREE Examination WITH FULL MONEY BACK GUARANTEE!

Any unused item purchased from us can be returned in 14 days for complete refund or exchange.

ORDER NOW! GET ALL THE AHC "EXTRAS"

WALTHERS
PUG PASSENGER CARS ea. 5.45
Postal; Baggage; Combine; Coach; Diner; Pullman—(Specify Red or Green)
Observation (Red or Green) 5.95
STD. PASSENGER CARS ea. 4.75
80'—12 Sec. Pullman; 8 Sec. Pullman; 6 Sec. Pullman; Pullman 13 Room; Solarium; Diner; Diner (M Roof)
80' Observation (M Roof) 1/tks 5.25
80' Observ. (M Roof) less tks 5.25
60' Baggage (Arch Roof) 1/tks 4.35
70' Baggage (M Roof) less tks 4.35
60' Postal (Arch Roof) less tks 4.35
COACHES, COMBINES ea. 4.75
70' P-B Combine (A or M Roof); 75' Combine (A or M Roof); 75' Coach (Arch or Monitor Roof).

MISCELLANEOUS
Tractor & Trailer Rig (Ulrich) 2.50
Mack Rig (Ulrich) 2.50
Dump Rig (Ulrich) 2.75
Shorty Caboose (M.E.W.) 2.95
Associated Transport 2.50
Mew Log Buggy 2.50
Thomas Wine Car 3.25
Ribbon Rail Track Cleaning Car 4.95
Model Wood Lumber Kits: Kit A 2.95
Kit B 3.95 Kit C 5.95

HO CAR PARTS

COUPLERS
Rail Line NMRA std. couplers pr. .35
Rail Line (above) w/dr. gear pr. .50
Rail Line Uncoupling Ramp .35
Varney Dummy pr. .10
Varney Dummy w/draft gear pr. .15
Mantua Freight pr. .35
Mantua Freight (metal cars) pr .25
Mantua Passenger pr. .50
Mantua Uncoupling Ramp .50
New Varney Automatic (Steel) .20
New Varney Automatic (Brass) .30
New Varney Ramp .15
Kadee Coupler Ht. Gauge 1.00
Kadee — .40 w/Draft Gear .50
Kadee Uncoupling Ramp .25
Kadee Control Button 1.35
HObbyline Couplers (Plastic) pr. .25

TRUCKS
Kadee Talgo Trucks pr. 1.30
Buckeye Double Truss pr. .75
Mantua Talgo Pass. pr. 1.95
Mantua "Talgo" Trucks pr. 1.25
Varney or English (Nylon) pr. .50
Silver Streak (Metal) pr. .85

Mantua Bettendorf pr. .75
Athearn Bettendorf, Arch Bar or Andrews Types pr. .85
Athearn Symington pr. 1.00
Athearn Buckeye 6 Wheel pr. 1.95
Cent. Valley Fox Type 30 Ton 1.10
Cent. Valley Fox Type 40 Ton 1.10
CV Arch Bar Short Wheelbase .85
CV 6W Riveted or Cast Frame 1.95
CV 4W Riveted Frame, Standard or Streamliner Types 1.65

HO TRACK PRODUCTS

ATLAS
Curvable Track, 3 Ft. Section .75
Switch Kits Y, 4, 6, 8-LH or RH 1.25
Assembled Switches " " " 1.95
90 Degree Crossing 1.75
45 or 60 Degree Crossing 2.25
18 or 30 Degree Crossing 2.50
Rail Joiners, Brass .50
Plastic Insul. Rail Joiners 12 .15
Cork Roadbed or Switch Blocks ea. .35
Tie Strip 25 Ft 1.50
Switch Tie Strip 10 Ft 2.00
Double Tie Strip 10 Ft 2.50
HO Brass Rail 99 Ft. 3.75
Snap-Track Straight 9" Sections or Curved (15", 18" or 22" Rad.) ea. 25
Auto. Snap Switch R.H. or L.H. 4.50
Manual Snap Switch RH or LH 2.95
Bumper .49 Control Box .60
Girder Bridge 1.75
90° Snap-Crossing 2.25
Terminal Sect. Snap-Track .75

FLEISHMANN
Rigid Track, Straight or Curved 15" radius sections ea. .15
10" or 24" radius sections ea. .20
Manual Switches pair 5.95
Remote Control Switches pair 9.95

PEARE
Flexible Track — 3 ft. .75
Assmbld. Switches: 4, 6, R or L 1.95

TRU-SCALE
READY-TRACK
Straight 2' lengths $1.00; Curved 16", 18" & 20" radius ea. .75; Full circle $6.00
Switch Kits ea. 1.25
MOUNTED TURNOUTS — TIED ROADBED ea. 3.35
Hi-Speed 4, 6, 8 RH or LH
MOUNTED CROSSOVERS — TIED ROADBED ea. 5.95
Hi-Speed Wye, 4, 6, 8 RH or LH
Scissor Crossover 4&6, RH or LH 17.95
Hi Sp. Dbl. T'nout #4, RH or LH 10.95
MOUNTED CROSSINGS
45°, 60°, 90° ea. 2.95
14°, 28° ea. 3.25
ROADBED, WOOD *TIES—PLAIN*
Straight 3 Ft .45 .33
Superflex 3 Ft .72
Spiral Easements, R&L, pr. .80
Bridge Stock 18 in. .40
Switch Blocks, Any Size .65 .45
X-over Bloc, Any Size .85 .55
COMPLETE CIRCLES
14" Radius 1.90 1.45
16" Radius 2.15 1.65
18" Radius 2.40 1.85
20" Radius 2.65 2.05
22" Radius 2.90 2.20
24" Radius 3.15 2.40
26" Radius 3.40 2.60
28" Radius 3.65 2.80
30" Radius 3.90 2.95
32" Radius 4.15 3.15
34" Radius 4.40 3.35
36" Radius 4.65 3.55

FOWLER SIGNALS
Semaphore & Actuator 4.85
Crossing Gates & Actuator 4.85
Actuator 4.25
Track Side Switch Incl. Shoe 1.95
Block Switch ea. .95

HO MISCELLANEOUS

SWITCH MACHINES
Challenger (Pioneer) 3.50
Klick (Pioneer) 1.35
Polaris (Exposed or Concealed) 2.25
Turbo Jet 1.50
Walthers TS-5 2.25
Lindsay Switch Motor 2.95
Lindsay Mini Switch 1.95
Jiffy Switch 2.25
Kurtz Kraft K4—1.50; Economy .98
M. E. W. Ground Throw .75
Best Friend Switch Controller 1.50
Kurtz Kraft K5 2.50

SWITCH STANDS
2 Green and 2 Red .75
2 Amber and 2 Red .75
M.E.W. Hi-Level .90

MARKER LAMPS
Caboose Lamps 3 Gn, 1 Red pr. .60
Caboose Lamps 3 Am., 1 Red pr. .60
Loco Lamps 2 Green, 2 White pr. .60
Switch Std. Lps, 2 Gr, 2 Rd pr. .60
" Stand Lps, 2 Am., 2 Red pr. .60

TOOLS
Troxel (Brass) Track Gauge .85
Gaunt Track Gauge .25
Mantua Track Gauge .40
Coupler Height Gauge .35
M. E. W. Track Gauge .35
Varney Track Gauge .30
M. E. W. Track Layer 1.25
Gaunt Spiker .75
Lindsay Magnetic Rail Spiker 3.35
Mantua Re-Railer .35
Varney Re-Railer .25
Varney Permanent Rerailer .69
Clock Oil .25 Spindle Oil .25
Valvespout No 3 Precision Oiler 1.00
Scale Ruler (HO) Steel .45 and .65
12" HO Scale Ruler 1.00
Drill Set No. 61-80 w/Index Stand 6.50
Double End Pin Vise 1.00
Dbl. End 4 Chuck Pin Vise 1.50
Zona Saw 1.00
Jeweler's Saw 1.39
Solder Iron (Midjet) 1.49
Glue Gun Plastic .50; Metal .75

MISCELLANEOUS
Terminal Connector (Mantua) .50
M. H. P. Diaphragms pr. .65
HO Ballast, Gravel, Grass, Earth, Coal,
Scenic Sand ea. .35
Tracklayer Spikes .60
Spikes (Offsett Hd.—Steel) pkge. .50
Slide Switch .25
Kurtz Kraft Semaphore 2.25
Kurtz Kraft Crossing Gate 1.95

BLDGS. & STRUCTURES

TURNTABLES
Ideal 10.95
Robico Gallows 3.50

ALEXANDER
Country School 3.50
Tunnel Portals (PRR, B&O, N&W) 1.15
Dbl. Tunnel Portals " 1.50
Water Tank - $2.95 Coaling Stn. 6.95
Pillar Crane & Dock 2.95
Freight Station 2.95
Oil Tank and Rack 2.25

ARGY SPECIALTIES
Mail Pouch Tobacco Barn 1.95
Switchyard Observ. Tower 4.50
Grand Junction Box Works 3.25
Swift Meat Packing Plant 3.65
Fruit Growers Exchange 3.25
Purina Chows Feed Mill 3.45

AYERS
Mission Style Station 1.90
1887 Passenger Depot 4.25
1886 Freight House 2.95
Cooling Twr. 1.10; Water Tank 2.25
Mission Cafe- 2.75 Lumber Yard 4.25
Union Ice Co. 4.25 Old Town 4.95
Icing Platform Extension 2.10
New Diesel House 4.95
Modern Factory 2.25
Deck or Thru Timber Bridge ea. 3.30
Timber Trestle 3.75
Old Town Lodgings 3.75
Freight Platforms 1.25
2 Modern Stores 1.25

PLASTICVILLE, U.S.A.
6 Evrgrn. Trees .10 Post Office .79
Fence & Gate .25 5 & 10¢ Store .79
12 Telephone Poles .45 Super Mkt. .79
House Kits (Cp. Cod or Ranch) ea. .49
Kits (Pol. Stn. or Dr. & Hdwr.) ea. .79
Fire House .79 Chuch 1.00
Passenger & Freight Station 1.00

STEWART PRODUCTS
Automatic Car Washer 2.45
Diesel Oil Tank & Pump House 1.95
Diesel Sand Tower 1.10
Diesel Fuel Column .75
Diesel Water Column .60
Watchman's Shanty 1.00

SUYDAM
Nite & Day Water Heater Co. 4.25
Interior Details 2.25 Lighting .95
3 Stall Roundhouse 5.25
Extra Stalls 1.25
No. 1 Furniture Factory 3.75
No. 2A Machine Wks, Dbl. Bldg. 4.25
#2B Machine Wks., Single Bldg. 3.00
#3 Northside Tool & Die Co. 3.75
#4 Mine Buildings 5.25
Warehouse - $3.75 Engine House 3.95
Pump House 2.95 Sawmill 4.85
Grain Elevator 3.75
Blk. Bart Mine 1.95
Red Lake Mine 2.75
House-Cream, Lt. Green, Rose 2.25
Shelter: Open or All Season ea. .95
Station Shed 2.95
Yard Control Tower 4.50

MISCELLANEOUS
Hi-Lo Trestle Set 7.95
Girder Bridge (Authenticast) 2.00
Signal Bridge (Authenticast) 1.75
Curved Timber Trestle (star) 5.95
Old Time Timber Tunnel Portal 1.50
Stone 4 Arch Bridge 2.50

FIGURES—ACCESSORIES

AUTHENTICAST FIGURES
Crosswalk Scene 1.89 Farm Set 1.89
Fire Fighting Set 2.50 Rd. Signs 1.89
Flat Car Loads 2.50 Accid. Grp 1.89
Bus Stop Scene 1.89 Figs., Signs 1.59

TRU-SCALE
SCENIC BACKGROUND ea. 1.00
Farm Scene; Town Scene; Mountain.
TREES, INDIVIDUAL 6 for 1.00
Green Shade Tree; Cypress Tree; Orange Tree; Apple Tree; Spring; Autumn Tree
SHRUBS AND MISC.
Hedges (Flowered or Plain) .98
Plants or Bushes (Flowered) .98
Imitation Grass, Earth or Lichen .98
Landscape Kits 9 pc. .98; 19 pc. 1.95
Flowers Climbing .98
ORNAMENTAL FLOWERS 6 for 1.00
Red; Yellow; Blue; Green; Mixed Red & Green; Mixed Yellow & Green; Assorted

CEMENTS & LIQUIDS
Plasticate #410M .29
Ambroid .30
Goo (Walthers) .50
Model Cement .10; .15; .25
High Ball Spray Black 1.29
Track Cleaner or Loco Smoke ea. .98

LOOK TT GAUGE FANS

Room does not permit complete listing of TT equipment. Among the lines handled: H-P PRODUCTS (catalog 10c); GANDY DANCER (catalog 35c); A.L. Co. Road Bed (free catalog); JEWEL, etc. All items in our new catalog.

FLOQUIL RR. COLORS ea. .45
Engine Black; Reefer White; Caboose Red; Tuscan Red; Box Car Red; Roof Brown; Reefer Gray; Reefer Yellow; Reefer Orange; Pullman Green; Coach Green; Earth; Flesh; Diesel Maroon; Diesel L Green; Diesel D Green; Diesel L Blue; Diesel D Blue; Flat Varnish; Tuscan Red SM; Diesel Gloss; Flat Varnish Diesel Purple; Silver; Copper; Gold; Brass; Glaze
Dio-Sol Thinner 25 8 oz. Can .65

410 M RR. COLORS ea. .45
Flat Black; Box Car Red; Reefer Yellow; Reefer Orange; Tuscan Red; Clear Gloss; Pullman Green; Coach Green; Caboose Red; Roof Brown; White; Blue; Gray; Box Car Green; Tank Yellow; Socony Red
Thinner (2oz.) .30 Thinner (8 oz.) .65

BOOKS
Atlas Track & Layout .10
Operating Manual 2.00
How To Wire Model RR. (Wescott) 2.00
" To Run Mdl. RR (Boomer Pete) 2.00
Model RR. Encyclop. (Kalmbach) 6.00
Track and Layout (Kalmbach) 2.00
Prac. Guide to Model RR " 2.00
Introd. to Scale " (Wescott) .25
Fun with Model Railroads .15
Model Cars & Locos 1.00
How to Wire Supplement .75
Small RRs. U Can Build 1.00
'Automatic Control' or Couplers .50
Track or Freight Car Design 1.00

MFG. CATALOGS
Mantua Encyclopedia .35
Walther Catalog or Bob Peare .50
Penn Line, Model Die Casting ea. .25
Marklin or Authenticast ea. .35
Varney, Athearn, Hobbyline, Tru-Scale, Selley, Suydam, Faller, Ayres, Ulrich, Pioneer, Summit, Model Rectifier, Kemptron, Silver Streak, Fleischmann, Alexander; Ambroid, Binkley, Weston ea. .10

AHC 1931 25 1956 ANNIVERSARY

HOW TO ORDER

Send payment in full. No stamps, no C.O.D.'s.
Address your order to us at the branch office nearest to you:

AMERICA'S HOBBY CENTER
Dept. C-46 156R West 25th St., New York 1, N. Y.
Dept. C-46 55R E. Washington Street, Chicago 2, Illinois
Dept. C-46 Rm. 230R, 742 Market St., San Francisco 2, Calif.

NOW! ORDER GET ALL THE AHC "EXTRAS"

NO MINIMUM ORDER • NO MINIMUM ORDER

WE DUPLICATE ANY OFFER made by any other advertiser. Attach ANY ad to your order—and take advantage of the AHC "extras."

READ THIS ENTIRE MAGAZINE FROM COVER TO COVER ALMOST EVERYTHING ADVERTISED CAN BE ORDERED FROM AHC.

PARTS: We carry extra and repair parts in stock. Send today for the parts you need to keep your equipment in "tip-top" shape.

AMERICA'S HOBBY CENTER, Inc.

1931 25th YEAR 1956

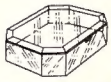
America's Largest Source of Models & Supplies

PAY LESS SAVE MORE AT AHC

1931 1956

25th Anniversary

SET OF 7 RR. PAINTS . . . ½ oz. bottles . . . one each of all popular colors. Reg. 89c. — **69¢**

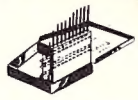


AHC PARTS BOXES. Transparent plastic with hinged tops, 1¾ x 2¼ x ¾" high. Ideal for small parts storage. Reg. 15c each. **6 for 50¢**

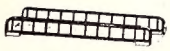
AHC 5-in-1 TRACK GAUGE . . . all metal. For checking track gauge, guard rail spacing, spike projection, etc. Reg. 35c — **25¢**

AHC CORK SWITCH BLOCKS for No. 4 or 6 switches (LH or RH). Extra wide to fit switches with built-in switch machines. Reg. 35c — **30¢**

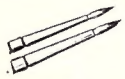
0-20 D-C AMP METER . . . panel mount, 2¾" square with bracket. An AHC super special. Reg. $3.00 — **200**



61-80 CARBON DRILL SET with Huot Case. Of good quality. Save $2.00. Reg. $6.50 — **450**



HO GIRDER BRIDGE . . . all metal. An excellent value at only **98¢** PAIR



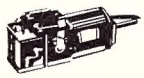
BRUSHES. We made a special purchase and can offer you a real "buy". Assorted sizes. $3.00 Value **20 for $1.00**

HO SIGNAL BRIDGE . . . all metal. Beautifully detailed. An AHC super bargain at only . . **98¢**

AHC TRACK CLEANER . . . ideal for keeping your track bright, clean and efficient. Will last for months. 25c value — **15¢**

HO RAILROAD HERALDS — 69¢

What a bargain! Authentic HO scale DECALS . . . one each of over 20 popular RR. HERALDS. They're in full color . . . ideal for a great variety of uses on your pike.



DC 60 MOTOR . . . 12 volt permanent magnet. Made in U.S.A. A real AHC money-saver. Reg. $5.00 — **300**

HO Right of Way Signs. Sheet of decals with 32 signs (10 different kinds) usually found around railroad yards. Save $2.00. Reg. $30c — **15¢**

HO FARM ANIMALS . . . set of 6 (unpainted). Includes sitting pig, standing pig, sheep, lamb, horse and cow. Reg. 70c. — **35¢**

DC POWER SOURCE

4 amps, 12 volts in a build-it-yourself power kit. Here's a basic unit consisting of transformer, line cord, full wave constant duty selenium rectifier—color coded and labeled for hookup. 5 amp circuit breaker and holder, etc. An ideal power source for cab control.

REDUCED TO 900

4 for $1.00

10 for $2.00

SPECIAL BUY! Control panel and track diagram INDICATOR LAMPS. A real bargain!

AHC All-Gauge Track Plan Designer. Saves hours of labor . . . has 16 curves, 4 crossing angles, dbl. track spacing, etc. SPECIAL . . . ONLY — **59¢**

SWITCH CONTROLLERS. Complete with 2 colored G.E. miniature bulbs, mounting screws, number strips, full instructions, etc. Reg. 98c each **2 for $1.59**

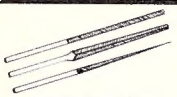
HO SWITCH MACHINES

Positive spring toggle action. Completely Assembled. A real "buy" at this low price!

98¢

24 HO FIGURES . . . 6 each of train crew, station crew, passengers and passengers with luggage. Unpainted. $1.50 VALUE — **115**

22 Pc. STATION SCENE . . . HO scale, with newsstand & dlr., bag. wgn., hand tk., 9 people, mail box, dog, trash box, etc. Metal. A terrific value — **100**



HOBBYIST FILES. Round, ½rd., flat, oval, knife, square, 3-sided, equalling, flat oval, barette, triangle or diamond. Set of 12 in wood box w/sliding cvr. — **250**

14 Pc. COUNTRY STORE SET with cracker brl., pot belly stove, 2 cases, 2 chairs, 2 men, platform scale, hand truck, etc. All Metal, HO scale — **50¢**

Swiss imported. Set of 6, Nos. 0-1-2-3-4-5 with swivel heads. Reg. $2.25.

PRECISION SCREWDRIVERS Swiss imported. Set of 6, Nos. 0-1-2-3-4-5. Colored heads for easy identification. Reg. $2.25. **149**

HO ROAD GANG SET . . . die cast metal. Includes various Rr. workmen & their equipment. An excellent value . . . only **50¢**

HOOK-UP WIRE. 50 Ft. coils, asstd. colors. Single 20 gauge wire . . . solid, plastic covered. **6 Coils—$2.75** **12 Coils— 5.25**

HOBBYIST'S PLIERS . . . finest imported. Choice of Long nose side cutting or Square nose. Precision made with knurled handles. Each — **75¢**

TURN PAGE FOR MORE AHC SUPER BARGAINS AND HANDY ORDER FORM

MODEL RAIL BOOKS

How to Build a MODEL RAILROAD
BOOK OF RULES FOR MODEL RAILROADING
WHAT MAKES THE LOCOMOTIVE GO
by LAWRENCE W. KALE
Fun with a Model Railroad
We have exhausted our stock of the MODEL RAILROAD MANUAL and FUN WITH A MODEL RAILROAD.

THESE TITLES AND MANY MORE AVAILABLE NOW AT REDUCED PRICES

This INVENTORY SALE of model railroading books comes at a time when many people are wondering what to do with their Christmas gift money . . . while others are recovering from the hustle and bustle of holiday activities and are looking forward to relaxing with their favorite hobby. Look over these wonderful money-saving book offers *now* and get your reference library started by sending in your order today.

VALUABLE MODEL RR REFERENCE BOOKS

SET NO. 1—A $6.50 value for only $4.00

HOW TO BUILD A MODEL RAILROAD ($2.00)
A complete, practical explanation of model railroading, including track design, loco and car construction methods, scenery hints and much general information.

WHAT MAKES THE LOCOMOTIVE GO ($2.00)
Complete workings of a steam locomotive in picture form. Complicated functions made easy to understand thru illustrations and captions.

MODEL RAILROAD MANUAL ($1.00)
Complete coverage of locomotive parts: front, side, and inside cab. Includes Boston and Main Mogul (2-6-0-), S.P. A-6 Atlantic (4-4-2), and 6000 NYC Engine in HO (4-8-4).

SET NO. 2 5 RAILROAD PHOTO ALBUMS
A $2.50 value for only $1.75

240 lavishly illustrated pages, showing large, clear photos of locomotives in classes 0-4-0, 2-6-0, 2-8-0, 4-4-0, 4-6-0. Ideal for adding details to models.

These books can be purchased individually at regular price. If you already own one or two books in the collection, it may still be cheaper to buy the entire set. Remember your local club, library, or friends will welcome your duplicate copies.

ORDER FORM

PENN PUBLICATIONS
Dept. RH
Ramsey, New Jersey

Please send me the sets of books indicated below. I enclose $ ..... (please add 25c for postage on each order).

☐ **SET NO. 1—LIBRARY STARTER SET (a $6.50 value for only $4.00)**

☐ **SET No. 2 5 RAILROAD PHOTO ALBUMS ($2.50 value for only $1.75)**

NAME .....

ADDRESS .....

CITY & STATE .....

If this is a gift, indicate name you wish on card .....

Baldwin Model Locomotive Works

Mfrs. of Scale "O" gauge Locomotives & Precision Switches
See our September '55 ad
Information on Request

P. O. Box 1225 Greenwich, Conn.

SUPER! . . .
Detailed Scale All-Metal HANDCAR

HO 283
Just the thing to go with a section gang. Will really enhance your layout.

ONLY **50c**

12 PIECES IN KIT
HO 570 NMRA Coupler with special 1 inch shank
— 15c pair

WRITE TODAY!
'SUPERMARKET' CATALOG
850 HO and O items-10c
WE SELL DIRECT TO DEALERS

SELLEY, Inc.
MANUFACTURERS
Dept. 204 • 744 Clay St. • Winter Park, Fla

☆ **Tru-Scale 'mighty-mite' SWITCH MOTOR** ☆

Lowest Current draw with . . . LIGHTNING A-C-T-I-O-N!

FULL POWERED . . . yet so tiny it can be table-top mounted on 2" HO centers (either right or left side of track). So LOW . . . that it gives ample clearance for all types of equipment. Has amazing prototype appearance. Concealed mounting also easily accomplished. Maximum efficiency has been engineered into this compact switch motor, which is completely assembled, with polarity contacts and cover. Draws only 1 amp. momentary. Factory Tested and Fully Guaranteed.

HO REMOTE CONTROL "Hi-Speed" MOUNTED SWITCH. Fully wired, with binding posts . . . READY-to-operate. Made in 4's and 6's, R or L hand. Price $5.95.

Write for Free Illustrated Folder.

SYMBOL OF AUTHENTICITY
Tru-Scale Models
SAN DIMAS, CALIFORNIA

SAFETY VALVE

A Model Craftsman Speaks

In regard to the comment that real modelers are complaining about the large number of plastic ready to run HO sets on the market, I would say that if they were real modelers they would calmly ignore this plastic equipment and scratch build their own models. Model railroading is supposed to be a creative hobby, so why not use your creative ability and build. I am only 17 years old and am trying to complete an around the wall layout while going to school and earning a buck on the side. I prefer to spend what little time I have building a nice looking model which I can I built.

Earl Holloway
Ardmore, Okla.

● *Model railroading is many things to many people. Some folks like to scratch build, others have found ready to run train sets the answer to years of arm chair railroading. Take your choice. Ed.*

Seek And Ye Shall Find

You state that parts are plentiful. Now, brother, where in the U. S. A. can a model rail purchase plastic sides for an HO gauge stock car, with a choice of decals to attach. How about digging for gold among a few million non-model rails?

Bob Eaker,
Palo Alto, Calif.

● *Why, friend, I just called up a local hobby shop and he says he has a good stock of them from three manufacturers. Decals are available from several advertisers. The local dealer is sending you a card with what's available. Ed.*

Let Your Frau Read This One

How many of you women have stopped to think how lucky you are to have your husband interested in something like model railroading? Something that keeps him home instead of meandering elsewhere, and most likely without you? Not that he shouldn't go out once in a while but think of the women that are left alone most of the time. And I suppose you may class yourself as one of them, even though you should be there working right beside him. You'll find that you enjoy it more than you think. As a good wife should be interested in her man's work, so should she be interested in his recreational hours. Most women are always looking for a way to make their home, yard, and surroundings more beautiful and I don't believe that there is a woman alive that doesn't dream of the one home in the world for her. To the men, model railroads provide dreams of empires, dreams that never can come true except in the world of miniature. Well, you girls can build that dream house in miniature, too, and landscape it to your hearts content. And you can build a country place.

What better place to show off your talents. Maybe you like to paint. Build a model of that home you've always wanted and decorate it in the colors you like. But be sure to make it in the same scale as your man's railroad. Then everyone will notice it and you will have killed two birds with one stone, maybe more.

One, you will have found an outlet for your dreams. Two, you have made your husband a little happier and more proud of you. Three, you may have created a show room for the articles which you have both created so that others may enjoy them also.

You may find that you are more the hobbyist than that man of yours. Why not try it. I'd be happy to hear from other wives on this subject.

Mrs. William Ford
2511 West Ray St.
Seattle 99, Wash.

● *Three cheers for Mrs. Ford. Meanwhile, to all you single fellows a word of warning. In leap year, some of these gals will do anything to snare a husband and the model railroading fraternity has in its midst some mighty good prospects, and in all gauges, too. Ed.*

Operating Woodburner

I cannot resist taking exception to a statement in the Test Track (Feb. '56) that the plastic General will not even push. I am no champion of plastic but when this engine was assembled, it looked so good that I decided to free up some of the working parts by cleaning up axles, side rods, crosshead guides, etc. After a light greasing and several ounces of lead in the boiler and cab, the engine was pushed by another through a variety of switches, 12 inch curves, and 5 per cent grades without mishap. Even the pilot stayed on the rails.

The next step was to cut out the floor of the tender and insert a Lindsay power truck from a Globe diesel kit. The axle spacing of this kit agrees identically with the bolster spacing of the tender, so that the tender side frames may be cemented to the tender floor and only a "super detailer" with a flashlight will notice the substitution. With as much lead as possible in the tender, the General will pull its two cars plus several others.

The coaches in this kit will perform nicely if weighted and if metal wheels are substituted. I used some discarded

BARGAINS GALORE — Specials! — Stock Up! — SAVE

25th ANNIVERSARY SPECIALS

SPECIAL BONUS OFFER

Here's the bargain-gift offer that had us swamped at Christmastime! Now . . . in answer to your many requests and letters—"Operation CHRISTMAS GIFT" continues. It's the most tremendous bargain ever. LOOK SEE!

GIFT NO. 1 COST YOU ONLY **25¢** with every order of $5.00 or over

Here's What You Get:

AHC 5-in-1 Track Gauge • Fishplates AHC Track Cleaner • 2 AHC Terminal Connectors • Parts Box • Tube of Cement • 32 Decals HO Right of Way Signs • HO Manual on Model RR.

GIFT NO. 2 COST YOU ONLY **50¢** with every order of $10.00 or over

You Get Everything in **GIFT #1 . . . PLUS**

AHC All-Gauge Track Plan Designer • 2 Artist Brushes #1 & 2 • 6 HO Farm Animals.

GIFT NO. 3 COST YOU ONLY **75¢** with every order of $25.00 or over

You Get Everything in **GIFTS #1 and 2** *PLUS* . . . Set of 7 RR. Paints • Set of 12 Jewelers Files • 50 Ft. Hook-Up Wire.

WE MATCH ANY OFFER

AHC matches any offer made by any other advertiser. Attach ANY ad in this issue to your order — and take advantage of the AHC "extras."

ORDER NOW! Get all these AHC "EXTRAS"

LOOK! We'll PAY YOU

TO SEND FOR OUR 64 PAGE CATALOG

No . . . we're not "crazy". We want every reader of this magazine to have a copy of our catalog . . . and we're willing to pay for it. See our sensational offer below! The 2-color catalog is exclusively HO and TT "RAILS" . . . over 5000 items, fully illustrated . . . with pages and pages of informative data, charts, etc., etc.

SEND ONLY **50¢** — For Our Jumbo Catalog & Get a **$1.00 CREDIT** refundable with your next order

POWER PACK SPECIALS

FAMOUS "AHC" **SOLO PACK** — With Pulse Power. One Train Power Pack. An AHC "Super Buy" — **8.95**

FAMOUS "AHC" **TRIO PACK** — For 2 or 3 Trains — $25.00 VALUE — **SUPER SAVINGS $18.49**

HO SIGN BOARDS — All Metal. A must for every layout! SALE PRICED — **4 FOR $1.00**

Soldiers! Sailors! Marines! Orders placed through us get special attention. We understand your problems and take special care of your orders. No postage or packing charges on orders for over $2.

Canadians & Foreign Modelers! You save plenty by ordering from us. We accept your currency at market value. Canadian -- $1.05; Sterling -- $2.70; N.Z. - $2.35; Australian - $2.00; Philippine Peso - 33c; etc. Add 10% for postage and packing (minimum 50c).

CALLING ALL N. Y. CITY and metropolitan area MODELERS

VISIT OUR Hobby City

156 West 25th Street, New York 1, N. Y.

You'll find everything here . . . the world's largest stock — including the smallest engine parts. Experts on hand to help you!

ALL ORDERS PROCESSED IN 24 HOURS

SAVE TIME! USE THIS HANDY ORDER FORM

Branch offices, conveniently located coast-to-coast, airmail your orders to our N. Y. headquarters for immediate shipment.

GUARANTEED *Safe Delivery Anywhere in the WORLD*

Free **AHC "BARGAIN BULLETIN"** Lists dozens of big bargains. Send a self-addressed, stamped envelope today for your FREE copy. Please specify "Rail Bulletin RRBB"

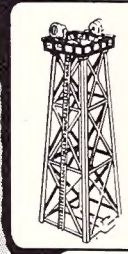
HO BRASS RAIL — 99 Ft. $2.50 — 495' for $9.95

SOLDERING IRON — Ideal for all model work. Reg. $2.25. A Real buy, at only — $1.29

AHC CORK ROADBED — Flexible . . . easily curved to match your track layout. Comes beveled for realism. NO MINIMUM ORDER! 3 Ft. Section — 30c

PEA LAMPS . . . 12 volt with leads. Choice of Red, Green, Amber or White — 10 for $1.25 — 3 for 49c

TRUCKS . . . An AHC Super Special. AAR Bettendorf all metal sprung freight Trucks. Reg. 90c — Pr. 50c



"HO" GAUGE FLOODLIGHT TOWER — Electrified. 6¼" high. Has two lights, screw terminals & hook-up wire. No soldering necessary. — $2.50

"HO" SWITCHES

Completely assembled. 4, 6 or 8 RH or LH. All brass . . . made to N.M.R.A.'s rigid specifications. The smoothest operating switches you can buy. NO MINIMUM ORDER. — 6 for $7.50 — 1.50 ea.

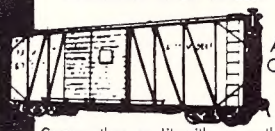
FLEXIBLE "HO" Brass TRACK

50¢ Per 3-foot Section

25 SECTIONS FOR $10.00 Accurately detailed — solid brass rail on heavy gauge fibre tie strip. Meets our own (and N.M.R.A.'s) specifications. NO MINIMUM ORDER!

HO CAR KITS

COMPLETE WITH NYLON TRUCKS



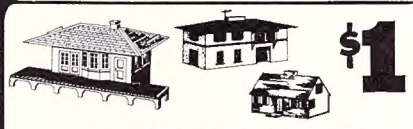
Any Six Cars for $5.00 — **98¢**

Compare these car kits with any on the market! A real bargain value at a bargain price. They're complete in every detail with printed, scored or embossed sides, metal parts such as ladders, steps, brake wheels, etc., etc. Full sized plans included.

PLEASE ORDER KITS BY NUMBER

REFRIGERATOR	BOX CARS	FLAT CARS
(1) PLUTO WATER	(7) M.K.T.	(13) L. & N.
(2) BABY RUTH	(8) WABASH	(14) C. & N.W.
(3) HORMEL FOODS	(9) G.T.W.	(15) MILWAUKEE
(4) M.T.D.	(10) T & P	
(5) GREEN BAY	(11) M.P.	ALL 15 CARS FOR ONLY $11.95
(6) A.R.T.	(12) C. & E.I.	

Above Kits with SILVER STREAK Metal Trucks $1.25
Any 6 for $6.95 — All 15 for $15.49



$1

20 "HO" SCALE BUILDINGS

A terrific value! **Cardboard CUTOUT BOOK** with 20 realistic HO scale FULL COLOR buildings. Contains Enginehouse, Water Tower, Freight House, Lunch Wagon, 2 RR. Stations, Restaurant, etc., etc.

PENN LINE

1/2 PRICE SALE

Special Purchase! Here's your buy-of-a-lifetime . . . you **BUY ONE** and get **ONE FREE!** We have a limited quantity only . . . so hurry! Please indicate an alternate car choice, in case we run "out".

BUY THIS $19.50 NO. PAC. DIESEL "A" UNIT

GET THIS $17.50 NO. PAC. "B" UNIT **FREE**

With Real Diesel Horn

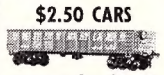
REG. $37.00 — BOTH FOR ONLY **19.50**

$3.50 CARS

NOW 2 FOR **3.50**

Your choice of Monon Box Car (shown), Wabash Reefer or 8 Wheel Caboose.

$2.50 CARS



Now 2 for $2.50

Choice: Gondola Car (shown) and Piggy Back Car.

$4.95 PASSENGER CARS

Illuminated Baggage Car with sliding doors, Reg. $5.95 — 2 for $5.95

NOW 2 FOR **$4.95**

Illuminated cars w/2 interior lights. Choice of: Pullman, Coach or Diner. Real beauts!

HOW TO ORDER

Send payment in full. No stamps, no C.O.D.'s. Address your order to your nearest AHC branch office. Include 25¢ extra if order is under $2.00.

AMERICA'S HOBBY CENTER

156R West 25th St., New York 1, N. Y.
55R E. Washington Street, Chicago 2, Illinois
Rm. 230R, 742 Market St., San Francisco 2, Calif.

NOTE: Branch offices (Chicago and San Francisco) airmail your orders to our N. Y. headquarters for immediate shipment.

Please RUSH me the following:
PLEASE PRINT

Name _____

Street Address _____ Amount Enclosed _____

City _____ Zone _____ State _____

☐ **Gift #1** I enclose 25¢ and this order for $5.00 or over. ☐ **Gift #2** I enclose 50¢ and this order for $10.00 or over. ☐ **Gift #3** I enclose 75¢ and this order for $25.00 or over.

Page	Quantity	Name & Description of Items	Cost Each	Total
			Total	

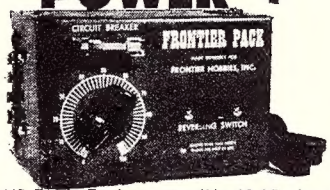
24 HOUR SERVICE AT ALL TIMES — **DEPT. C-46**

BUILD YOUR BRIDGES, TRESTLES, TOWERS OF METAL FOR REALISM—
— use —
MODEL STRUCTURAL SHAPES OF BRASS

ANGLES — CHANNELS
H COLUMNS — TEES
ZEES — I BEAMS
Flat, Round & Square Bars—Sheets

Manufactured by
SPECIAL SHAPES CO.
2445 LOGAN BOULEVARD
CHICAGO 47, ILL.
At your dealer or write for price list

POWER

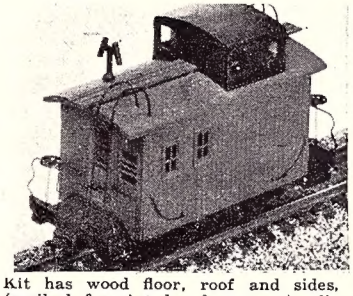


Oct. *MR Trade Topics* states "At $8.95, the pack is an excellent value. Its over-all quality is tops. We like it."
More features than any other power pack in its price class: heavy duty construction — all metal cabinet — circuit breaker for protection — A.C. and controlled D.C. output — HO rheostat control with speed dial — forward and reverse switch — one year guarantee against faulty parts or workmanship.
Sensationally Priced at **$8.95** Post paid
FRONTIER HOBBIES
3183 Bailey Ave. Buffalo 15, N. Y.

GIANT 88 PAGE CATALOG
For O Gauge Model Railroaders
Combined Scale and Tinplate **75c**
Credit coupon in each catalog good for 75c with first purchase of $5.00
Greatest Variety in O Gauge
Steam Locos, Diesels, Cars and Parts Galore
ALL-NATION HOBBY SHOP
182 N. LaSalle St., Dept. RMC Chicago 1, Ill.

When writing to advertisers, please mention Railroad Model Craftsman

HO Honey! Transfer Caboose



CLIFF LINE

Kit has wood floor, roof and sides, (scribed & painted red or gray); die cast windows, modified Taylor 4 wheel trucks . . . complete. $2.75. Cliff's Famous Depressed Center Flat Car. HO. complete kit $1.95
See your dealer or send Stamps for Literature.
Box 322, Station 1 North Hollywood, Calif.

wheels from worn trucks. The engine has now been run about ten hours with no noticeable wear in the side rods. So it looks like the Seaford, Oyster Bay, and Orient has another woodburner.

Robert A. Michenfelder
Massapequa, L. I., N. Y.

● *A very interesting adaptation, Bob. Thanks for sharing it with our readers.*

Mr. Watts Sees The Light

To keep my $3000 HO collection of 20 locomotives and 300 cars going, I had to buy a 9 inch lathe and build myself a foundry. It's almost impossible to get parts hereabouts, even in Atlanta. There are O gaugers here, too, who keep plugging away but where they buy their parts is a trade secret. No hobby shop stocks the stuff closer than Tampa, Florida. So now I can build almost anything as I also have a woodworking shop. But why, I asked myself, fool around with HO or O. I am now building a one inch scale live steam locomotive. I now wish I had gone into live steam when I deserted model airplanes in 1940. I have been building models since 1927.

Sydney H. Watts
East Point, Ga.

● *Plenty of shops up No'th stock parts. Surely there must be shops in Georgia that have them, too. What say, Georgians? Ed.*

That Old RMC Magic

Because I am changing to O gauge scale and wanted to dispose of my HO equipment, I placed an ad in your Swappers Column (January) half expecting very few, if any replies.

Then it happened! To date, and heavens knows there will be more, I have received (and answered all) 57 replies to the ad, 3 hobby firms, and 6 acceptances, from all over the United States. I have swapped my equipment and very satisfactorily, too. My sincere thanks to all who answered my ad and to RMC who started the ball rolling with their wonderful Swappers Column.

Robert E. Forsell
Aurora, Illinois

● *That Swappers Column surprises quite a few people. Ed.*

Ode To A Caboose (Two Or More)

I loathe to think of things fowl,
So to me cabeese are plain cabooses.
Like the hangman that knows his ropes,
When hanging two; he must use nooses.

Max Gray
Portland 14, Oregon

● *What's the problem? You can use Hacks, Crummies, Cabin Cars. Ed.*

CNR Diesel Comments

It seems that reader Paul Carroll (Jan. '56 RMC) got his wires crossed somewhere along the line with CNR 9000. I believe that CNR 9000 was the first true road diesel to go into service. It operated in both freight and passenger service between Montreal and Toronto. During the war years, it was repainted and campflaged and operated along the coast. It was scrapped during the '40s.

However, the record breaking dash from Montreal to Vancouver was made by a CNR oil electric car of the 15000 series, the forerunner of today's RDC's. Some of these cars are still in service on branch lines.

D. A. Taylor
Agincourt, Ont.

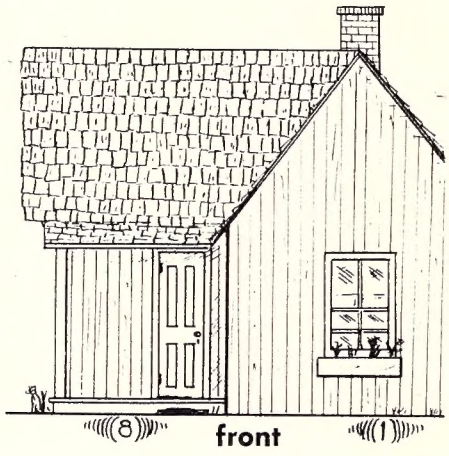
● *Plans for that oil-electric appeared in this magazine back in 1934. We are unable to supply copies but if there is interest, we may reprint the plans. Ed.*

Shingles & Shakes

Where did the man Joe Wilhelm come from? Has he never seen any farms with the latest style buildings? Probably he has never been west of the Mississippi River and he is dreaming what they look like. As a farmer, I must say that our farm buildings are very modern and up-to-date. And as good or better than some buildings in the cities. To look at those buildings he planned is a disgrace to the American farmer (out West). In all my travels I have never seen such buildings.

Harry M. Nelson
Great Falls, Montana

● *Author-modeler Wilhelm hails from good old New Orleans, right on the Mississippi. His farm wasn't intended as an up to date farm but rather as a small ramshackle place that would look especially good on a period pike, which is what Wilhelm specializes in. Few modelers would have the room to model a really modern, up-to-date farm. Ed.*



Joe Wilhelm says to, "stagger the shingles up and down a bit. Don't make them too even." I drove shingles as a young man and we always laid them to a chalk line with a 50 per cent lip. Most shingles are 12 inches long, so the lap in HO would be about 1/16 inch. I would suggest that they be laid as accurately as can be and even then they will show inaccuracies. Of course, he may have been thinking of hand made shakes to cover the roof with, but then I don't think he should have used the hip roofed barn. Well, this isn't much of a gripe. You see a lot of these buildings back in the mountains where my cabin is.

I have been getting RMC since 1934. Such fellows as L. Austin, Joe Wilhem, Dick Andrews, and Bill Schopp,

and the many others have really meant a lot to me. I really dig Bill Schopp in a big way. I am especially interested in industrial railroading, mining, and lumber. My best performing loco is a superdetailed Little Six. Man, can that thing haul. I've an old Forney, built from MINIATURE RAILROADING plans, which is now in the shops for overhaul and revamping.

Rev. Larry C. Jewell
Carmichaels, Pa.

MODEL RAILROAD TIMETABLE

Club Shows

BETHLEHEM, PA.: April 30 thru May 5, 7-10 PM. Bethlehem SME, 4th Annual Show. At YMCA basement, East Broad Stret. HO and O layouts plus displays. Admision by donation. A. Auer, V. P.

MINEOLA, N. Y.: Nassau Model RR Club Inc., 25 Jericho Tpke. 2nd Annual Exhib. of HO Montauk Vy RR. Fri., Apr. 27, May 4, 7:30-10 P.M. Apr. 28-29, May 5-6, 2-5 P.M., 7:30-10 P.M. Adm. 25 cents. Tom Pichhardt, Secy.

PORTLAND, OREGON: Columbia Gorge Model RR Club, Inc., 3405 N. Montana Ave., April 2-22, 2-9 P.M. HO layout in operation. Admission 35c adults, 25c children. Charles Storz, secy.

GERBER, CALIFORNIA: South Shasta Lines, O gauge 2 rail DC. At G. A. Humann ranch, 1½ miles southeast of Gerber. April 7, 14, at 8 P.M. April 8 and 15 at 2 P.M. and 5 P.M. Shows last 1¼ hours, are not continuous. Admission by donation.

TORONTO, CANADA: Toronto Metropolitan Model RR Club, 701B Clair Ave., W., OPENHOUSE each Thursday evening during month of April, 8 P.M. to 11 P.M. No admission charge. D. A. Taylor, secy.

CLUB PUBLICITY CHAIRMEN: Items for this column are welcome. Items submitted for use in June issue should be received at Ramsey, N. J. editorial ofices not later than April 10th. Items for July issue by May 10th. Please print or type clearly and make sure that your facts are accurate.

NMRA Meets

SAN JOSE, CALIFORNIA: Apr. 27-29. Pacific Coast Region, Coast Div., host. O and HO layouts, displays, contest, movies. UP, SP, WP, SF displays plus display of WP and SP prototype equipment. Banquet Sat. night, breakfast Sunday A.M. Railettes will have tour of Santa Clara County. Advance registrations from Edward R. Lopez, 15930 Orange Blossom, Los Gatos, Cal. Cost of registration, banquet, and breakfast, ...6.75. Deadline is April 15th for advance registration.

TRENTON, N. J.: May 5-6. Joint meeting Mid-Eastern and North Eastern Regions. Hotel Stacy-Trent. Fan trip, visit to John English factory. Model contest, Banquet Sat. night, breakfast Sunday A.M. Details from convention chairman , Cecil Matthews, 1000 Edgerly Rd., Glen Burnie, Md.

GARFIELD PARK, CHICAGO, ILLINOIS: May 5-6. Midwest Region Spring Meet. Garfield Park Model RR Club, host. At Gold Dome Bldg., Central Park Ave. and Washington Blvd. Registration Friday P.M. May 4tth through Sunday A.M. Events include drawbar contests in HO, S. O. Trolley and railfan trips, auction, clinics, banquet, installation of new members of the Board of Directors. Bernard J. Pollack, 1944 N. Spaulding Ave., Chicago 47, Ill.

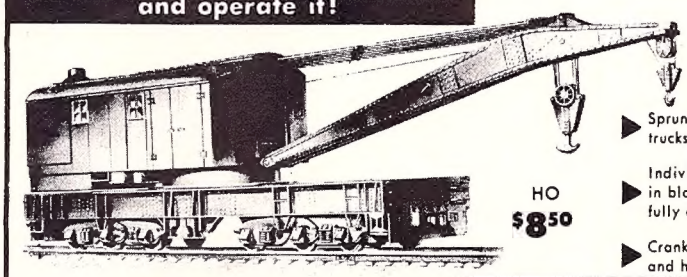
Catalogs

SOUTH BEND LATHE WORKS: 50th Anniversary catalog, 80 pages. Of use and value to anyone resonsible for the use and selection of machine tools. South Bend 22, Ind.

CHAMP DECALS
Largest, Finest Selection of Authentic R. R. Lettering Sets.
Combining HO-O gauge Catalog, 25c pp.
S gauge Catalog, 25c pp.
CHAMPION DECAL COMPANY
1802 E. Burnside St. Portland 14, Ore.

S AND HO
AMERICAN FLYER HEADQUARTERS
All standard lines in stock. Send stamped envelope for Bargain list. State gauge.
DELAWARE VALLEY HOBBY SHOPS
SOUTHAMPTON 8, PA.

Build this 200 ton WRECK CRANE and operate it!



HO $8.50

Note These Features
- 1 pc. die cast base, cab and boom.
- 1 pc. beautifully detailed hooks.
- Sprung, 6 wheel buckeye trucks.
- Individual pulleys. All parts in black finish and fully operating.
- Cranks for lowering booms and hooks.

GET THESE ATHEARN KITS FOR YOUR PIKE
☐ BOX CARS ☐ AUTO CARS
☐ REEFERS ☐ FLAT CARS

IRVIN R. Athearn
11929 S. WESTERN AVENUE
LOS ANGELES 47, CALIFORNIA

AUTHENTIC—FULLY SCALED—PAINTED—STREAMLINED
PASSENGER CARS by Blue Line

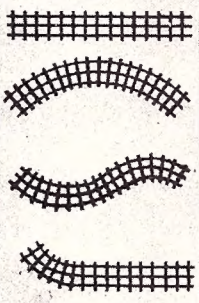
STRATA DOME COACH

9 Different cars painted for 10 outstanding American Railroads—in kits with or without trucks. See these HO gauge kits at your local hobby store or send self addressed, stamped envelope for catalog to:

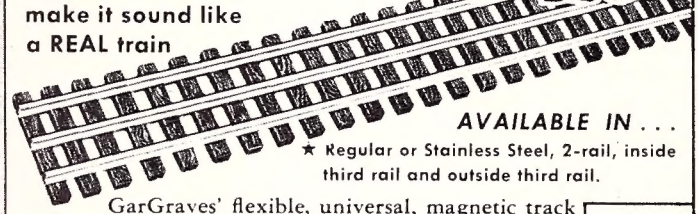
BLUE LINE PRODUCTS CO.
5292 Gary Street Dept. "F" San Diego 15, Calif.

SCALE & TINPLATE TRAINS
now arriving on . . .
GarGrave's UNIVERSAL FLEXIBLE TRACKS

BENDS TO ANY CURVE



WOOD TIES
make it sound like a REAL train



AVAILABLE IN . . .
★ Regular or Stainless Steel, 2-rail, inside third rail and outside third rail.

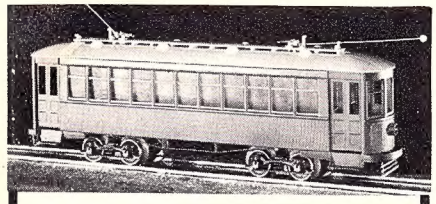
GarGraves' flexible, universal, magnetic track mates with ALL 0, 027 and 072 gauge track. Constructed of steel rail, 3/16" high, with accurate scale wood ties. Patented construction eliminates spike heads, permits tinplate locos to run perfectly on scale track.

NEW: "5" gauge trackage and switches . . , 3 rail "O", "0-27", "0-72" 90° crossovers and switches.

Free Send 3c stamp for complete GarGraves trackage facts."

SEE YOUR DEALER OR WRITE TO . . .

Gardner, **"THE TRAIN DOCTOR"**
RAILROADING IS OUR BUSINESS—NOT A SIDELINE
2261 DEWEY AVENUE—ROCHESTER 16, N. Y.



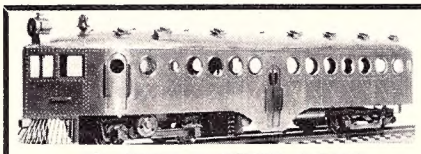
ALL "O" GA. TROLLEY EQPT.

in current (9/1/54) catalog is available in stock, subject to prior sale. If not at your dealer, write direct, remitting for shipment postage ppd.

SEND 10¢ FOR TROLLEY CATALOG

PITTMAN

ELECTRICAL DEVELOPMENTS CO., SELLERSVILLE, PA.



McKEEN MOTOR CARS

CUSTOM BUILT

Hand built of brass in Japan, completely finished with motor, tested and ready to run, not painted.

HO gauge $25
S gauge $75
O gauge $75

The fascinating feature of the McKeens was the flywheel. Incorporated into the motor unit of the O and S gauge models is a clutch which permits the flywheel to turn even when the car is standing still.

O and S gauge available with flanges for either scale or high rail. Please include $3 deposit with order, delivery about 60 days.

KEN KIDDER

Box 213 San Francisco, Calif.

LOBAUGH

MICROMETER PRECISION

Standard of the World in "O" Gauge

For smooth running, durable, heavy duty locomotives in 1/4 inch scale.

Catalog .25

LOBAUGH

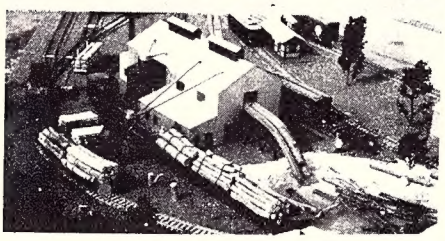
SCALE MODEL CO.

P.O. BOX 901 Sun Mateo, Calif.

Realism plus with

SUYDAM

Model Building Kits



LUMBERING—MINING—INDUSTRY—STORES
RR STRUCTURES—HOUSES

Over 40 different kits to choose from. Ask your dealer—or send 3c stamped No. 10 envelope for circulars.

E. SUYDAM & CO.

BOX 55 DUARTE, CALIF.

DISPATCHERS' REPORT

THE New York Society of Model Engineers, Inc., must vacate their Hoboken Terminal clubrooms to make way for a new Railway Postoffice which will occupy the space now used by the famed O gauge Union Connecting Railroad. The NYSME does not yet know where they will move to and will welcome any suggestions. . . . Many clubs no sooner get their layout up and operating than the landlord comes along with a rent hike. As a result, model clubs would do well to insist on long leases. . . . Where to build a club layout? Some likely suggestions include unused or little used railroad stations, basement of various municipal buildings, store basements, 2nd or 3rd story lofts, barns or large detached garages. Also try the YMCA, town recreation director, clergymen, PAL, local hobbyshops, or the company for which you work.

Some modelers find the little Park alnico magnets terrific for weighting plastic HO cars. Place one underneath the car and the other on top of the floor. They stay in place permanently; have the added advantage of picking up all small steel spikes, screws, etc., which can drop onto your track. Write Park Magnet Co., 3657 S. Vermont Ave., Los Angeles 7, Calif. . . . Eastern Traction Company has been sold to a combine of Philadelphia modelers, Guy Obrecht and Jim Pyle Jr. They plan to release HO traction kits under the new name Delaware Valley Car Works. More info as they get into production within the next few months. . . . Houston Monorail 800 foot segment now open to public. . . . Tyler Manufacturing Company, manufacturers of Tyco HO trains, now a member of the Toy Manufacturers Of The U. S. A. Inc. .

Members of the North Jersey Model Railroad Club recently held open house at their new North Haledon club rooms. A good portion of their fine new editor Hal Carstens parked out back, found out too late that the yard was nothing but mud and getting worse as the rain got heavier. Took 12 O gaugers, staunch and true, plus an hour's work, to push him out. . . .

All-Nation Shop Robbed

Jim Wilson, of All-Nation, advises that 11 Tenshodo and United Shays, Atlantics, and diesels were taken from his Chicago shop, along with some A-N kits and 3 Max Gray hoppers. Also taken were a large collection of stamps and coins, including metal and wood cabinet drawers. Hobbyists hearing of any terrific deals along this line should contact All-Nation or the Chicago Police Dept. . . . If you're a hobby shop owner or have a large valuable collection of model railroad equipment, would you be insured if your place was burglarized? . . . Suydam HO Box factory now has turkey red embossed matboard rather than old plain scored matboard plus new die cutting that is very clean, eliminating need for cleaning up as in old original Argy line. . . . Australians would like to see some model railroad products become available in their country. Ivo M. Edwards, of South Australia, writes that the customs people frequently won't believe that kits sent there are gifts from American hobbyists. No motors or track is made down under. Perhaps some American firms would find it profitable to permit licensing of their products in this sterling area. . . .

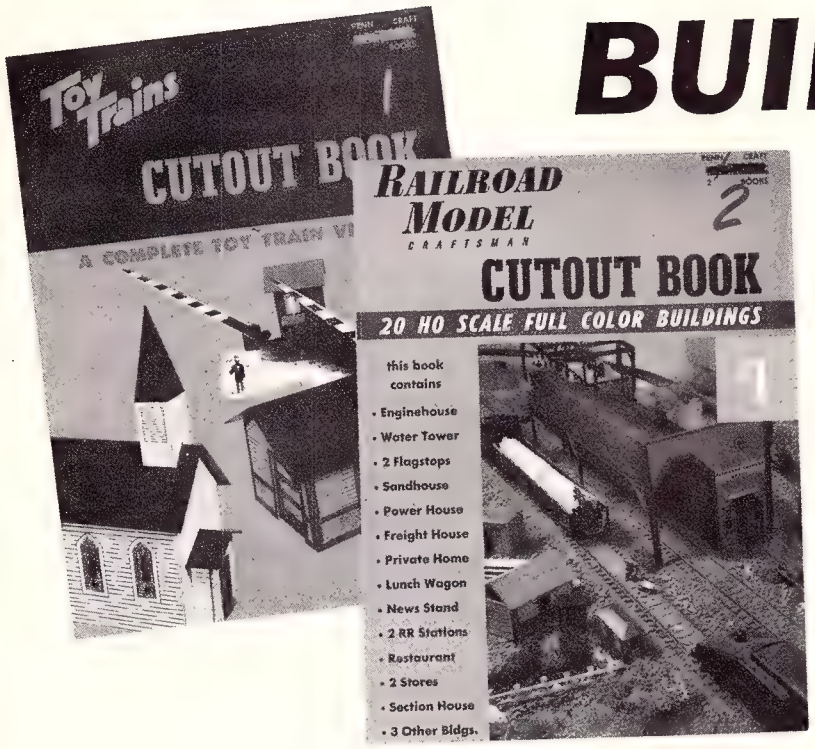
If you like to dabble in the stock market, you can now do it in the restful atmosphere of staid old Grand Central Terminal in New York City, where Merrill Lynch, Pierce, Fenner, and Beane are setting up a display. A dummy toy train was part of the construction barricade. The model was built by Ivel Corp., creators of the never to be forgotten New York World Fair model railroad. . . . Varney out with attractive replica of new GM Aero Train. Wonder if the model will do what the prototype did: throw itself over four tracks while backing up and consequently tying up all traffic in or out of Grand Central! . . . Rock Island's new Talgo train about ready. . . . ACF also announced new type of railroad freight car; about 36 ft. long, 4 wheels, with complete series of interchangeable bodies. These cars are interchangeable with present standard rolling stock. . . .

Western Hills Model RR Club, Cincinnati, Ohio, now issuing a club bulletin. Club bulletins help keep members posted; keeps interest up, too. . . . That amazing Lobaugh Climax locomotive, which pulls so beautifully and realistically slow, is powered with only a DC-60 motor. Needless to say, a good part of its fine operation is also fine workmanship in the rest of the parts. But it shows what that little DC-60 really can do if given the chance. . . . There used to be a lot of tinplate equipment made to No. 1 Gauge but today that size is pretty well extinct, except in the hands of collectors who go after it with furvor. . . .

Sure would like to see a set of super detailed switch point and switch frog castings. Ever look at the detail in the real thing? Amazing. . . . A good possibility that one manufacturer will introduce a standard gauge power truck, for the good of the hobby. Certainly would be interesting for trolley modelers. Imagine the detail in a standard gauge trolley? . . . Last street railway line in New Jersey now a thing of the past. Atlantic City lines went bus in January. Brilliners used there may head for Mexico, maybe. . . . New Jersey still has a very up to date trol-

20 HO BUILDINGS

for only **$1**



PENN CRAFT BOOKS

The fastest moving model railroad books in years, every page in full color!

ADD LIFE TO YOUR MODEL LAYOUT

ALL YOU HO GAUGERS

Now you can fill up all of those bare spots on your layout for only one dollar. The RMC Cutout Book contains a whole town of buildings and you'll be able to use every single one. This is the BIGGEST dollar's worth in model railroading today!

YOU S AND O GAUGERS, TOO

If you're in S or O gauge, send for the Toy Trains Cutout Book which is scaled especially for your gauges. There aren't quite as many buildings because they're bigger but where else can you get 14 buildings for a buck! A terrific value.

TREMENDOUS VALUE

PRINTED ON HEAVY CARD STOCK

ON SALE AT HOBBY SHOPS . . . OR USE THIS COUPON AND ORDER DIRECT

→ → →

PENN CRAFT BOOKS
Ramsey, New Jersey

Please send me the colorful new Penn Craft Cutout Books which I have checked below. I enclose $ ..... in check or money order. I understand that if I am not completely satisfied I can return either book within 5 days for full credit.

☐ **RMC CUTOUT BOOK**
20 HO SCALE FULL-COLOR BUILDINGS

☐ **TOY TRAINS CUTOUT BOOK**
A COMPLETE TOY TRAIN VILLAGE

NAME .....

STREET .....

CITY ..... ZONE ..... STATE .....

Please add 10c postage for each book ordered

NEED ACCESSORIES?

• Slow Motion Actuators • Wig-Wags
• Semaphores • Trackside Switches
• Block Switches • Crossing Gates

Slow Motion Actuator provides realistic motion, will hold semaphore blade or crossing gate arms in either position without current. This mechanical retarding device is completely assembled.

Wig-Wag for highway crossings is motor driven with an oscillating blade flashing red light, and realistic sounding gong.

O-HO Wig-Wag Kit, w/motor $5.50
HO Semaphore Kit, w/Actuator 4.85
HO Crossing Gates, w/Actuator 4.85
O-HO Actuator alone 4.25

Trackside Switches, installed at points alongside track and operated by a shoe mounted on engine provide a separate electrical circuit for actuator operation.
Trackside Switches, w/shoe, pr. 1.95

Extra shoes, pr. ..... .25
Block Switches installed on actuator provide automatic train control. Can also be used to indicate position of train, operate crossing gate wig-wag, turn on lights, etc.

Block Switch, ea. ..... .95

See your Hobby Dealer — Send 10c for literature

DON J. FOWLER
128 N. Almont Dr.
Los Angeles 48, Cal.

FOWLER'S SLOW MOTION

ONLY THE BEST

COMES FROM BOWSER
U.P. CHALLENGER 4-6-6-4

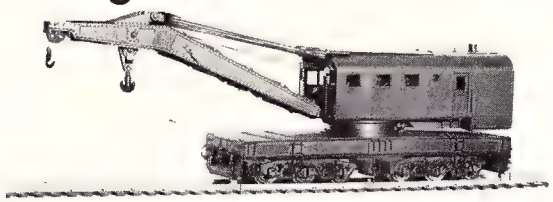
You'll find thousands of these detail packed Bowser articulateds on HO pikes throughout the world. They take 18 inch radius curves, have full valve gear, beautiful all metal die castings, and that famous Bowser motor. $52.50 at your favorite dealer.

Bowser's SP-1 tender, the perfect mate, $8.50

BOWSER'S CATALOG and instruction manual $1

Bowser
REDLANDS, CALIF.

O Gauge 200 ton WRECKER



Features manually operating Boom, Big Hook, Auxiliary Hook, Cab and Outriggers, triple decking and profusely detailed. Operating Lights front and rear. Extra heavy all-brass construction, completely builtup as shown, lines installed in place but not painted with 6-whl. sprung Buckeye Trucks. Full directions for operation supplied.

$76.50

MAX GRAY
Importer-Distributor
1802 East Burnside—Portland 14, Oregon

NEW 1956 FULLY ILLUSTRATED PERFECTION LINE CATALOG NOW READY! 50c per copy pp.

GP-9

HO SCALE DIESEL ROAD SWITCHER BY **Tenshodo** THE MARK OF QUALITY

— • WITH DYNAMIC BRAKE • —

Both trucks powered—Die Cast Gear Boxes—Brass Body and Frame—Working lights—Illuminated No. Boards—Beautiful, Durable, Authentic Painting—"Tenshodo" cast into gear boxes—Gold Label packed in each box identifies the Genuine.

Ready-to-run GP-9 Painted WP or C&NW $31.50
Unpainted kits $23.50
Other roads *coming in April.*

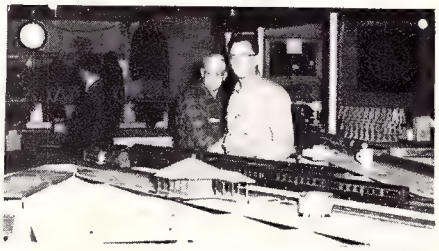
GP-7s in stock in SF, SP, WP, B&O, CB&Q, UP, PENN, SOO, RI, NYC, GN $27.50
SD-9s in stock in B&O, GN, SP, CB&Q, UP $29.95
Painted Kits PENN, C&NW $27.95

Order now! AT BETTER DEALERS EVERYWHERE or post paid direct from PFM.

PFM
PACIFIC FAST MAIL
P.O. BOX 57 EDMONDS, WASHINGTON

ley line, nevertheless, thank you, in the snappy Newark Subway, home to a fleet of former Minneapolis PCC cars. New Jersey also has the Hudson Tubes to New York and a Camden-Philadelphia subway line. And there are the electrified lines on the Pennsylvania, Reading, and Lackawanna.

Ramsey, N. J., where RMC has its editorial, advertising, and circulation offices, once had a real country interurban, too. The old North Jersey Rapid Transit ran between Paterson and Suffern; was the line on which ERA president E. J. Quinby worked in his younger days. . . . Bill Schopp sez that if you have any cereal left over from the great 1955 metal insignia rush, mix it with hamburger and feed it to the dog. . . . Those nylon worms and gears will last indefinitely with a little care. Lubriplate, or any good similar lubricant, applied periodically, will keep them from stripping. . . . One big eastern store said that 10 per cent of its Christmas repairs resulted from lack of worm and gear lubrication. Some makes of ready to run are easier to grease than others but none are difficult to lubricate.



Hurricane damage to the New Haven Railroad last fall was fantastic; beyond the comprehension of the average man in the street and even to students of railroading. Nearly 40 major bridges were knocked out plus hundreds of culverts, washouts, landslides, flooded track, etc. The road tried to keep operating normally; just couldn't. Fall floods in large measure responsible for delayed trains in January since maintenance fell behind. The New Haven is a great road, one any fan could be proud to model. . . .

At least one well known tinplate collector thinks he has a Lionel 700 NYC hudson in his collection; actually has a doctored up No. 763. At that, the detailed 763 is every bit as good, having the same detail. . . . You 700 owners can substitute Monarch O gauge scale couplers for Lionel scale couplers which have broken from age or abuse. . . . Watch for an about face from one of last years ready to run HO manufacturers. They're readying a quality HO all-metal locomotive kit that'll be a pip. . . .

Our old railroad hat is again tipped in the direction of Woodmere, L. I., where Hank Abraham and his railroad crew again drew big crowds with the annual open house of the Summit & Centre RR, with all proceeds going to the Red Cross. Shows that model railroading does have civic value, in addition to its recreational aspects. What is your club doing to make your town a better place to live? Maybe the kids in some nearby orphan home would like to see your layout. Or the kids in the local Scout troop. Maybe some of the local civic groups would like to see a display of model railroad equipment, along with a series of color

slides of your club or private layout. There's lots of things that can be done. Is your club doing any of them?

O gauge sales reported going up in a number of stores. It would really be a switch if HO became the big tinplate gauge and O gauge reverted to becoming the scale of the model craftsman. Actually, there will be plenty of activity, not only in HO and O, but in TT, S, and OO for a long time to come. But we do think that O gauge today has a greater appeal to the real builders than it has had in 15 years. Larger ranch house cellars are one of the reasons. And many modelers are just beginning to discover what a challenge O gauge really is.

HO, meanwhile, continues to chalk up new laurels. HO won't really catch on for several more years. . . . TTers again displayed their wares with an eye catching layout at the NYSME show in Hoboken, N. J. . . . Model rails shouldn't smirk when Hoboken is mentioned. Some of the very earliest railroading in this country began with Col. Stevens experiments in that town. It's home to the Manufacturers Railway and was once a mecca for trolley fanciers. . . .

That North Jersey model club in North Haledon has a British train owned by one of the members, complete with a string of Exley O gauge cars that is truly a collectors item. There's a small photo of it elsewhere in this column. Also one of a corner of their new layout. No scenery yet but the new pike runs sweetly and smoothly.

Plenty of model activity all over the country during April as you'll notice by going over the Model Railroad Timetable listings on page 8. For a while it looked as though the only active clubs were in New Jersey, New York, and Pennsylvania. If your club's show isn't listed, blame your own publicity director. And send those notices in as early as possible. . . .

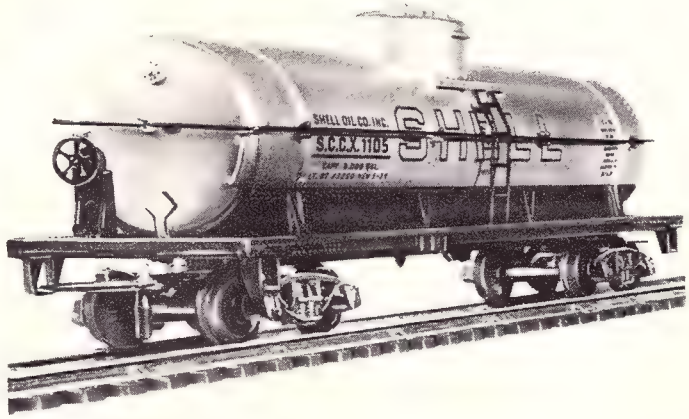
Pioneer Days

While Fred Icken is no longer making his famed custom built O gauge locos, they continue to be among the most sought after items. No collection or roundhouse of any consequence is complete without at least one. There have been many other great custom builders but none turned out the volume for which Fred became famous. Interesting side note is that RMC's Hal Carstens went to school with his daughter, Betty. . . . Among the HO custom builders, George Stock is probably the best known and just about the oldest one in the business. . . . Ed Alexander has also turned out his share of model locomotives, and cars, layouts, and industrial and military miniatures as well. Ed has built in just about every gauge there is to build in.

'HO' ALCO 1600 HP
DIESEL ROAD LOCOMOTIVE KIT
All Metal Construction!
Power unit is fully assembled, track tested and ready to run.
PRICE $13.95
★ ★ ★ ★
WRITE FOR ILLUSTRATED LITERATURE
☆ LINDSAY PRODUCTS
11601 W. Jefferson Blvd.,
CULVER CITY, CALIFORNIA

CONVERT
your Bowser K-11 Pacific
or Challenger Articulated
to LIVE STEAM
Drawings and instructions
. . . . . $3.50
Kits available
Build your own LIVE STEAM HO Pacific—
Plans and instructions
. . . . . $3.50
Send 20c for complete info and prices on HO Live Steam
JOSEPH B. MAIER CO.
12270-C MONTAGUE ST.
PACOIMA, CALIF.

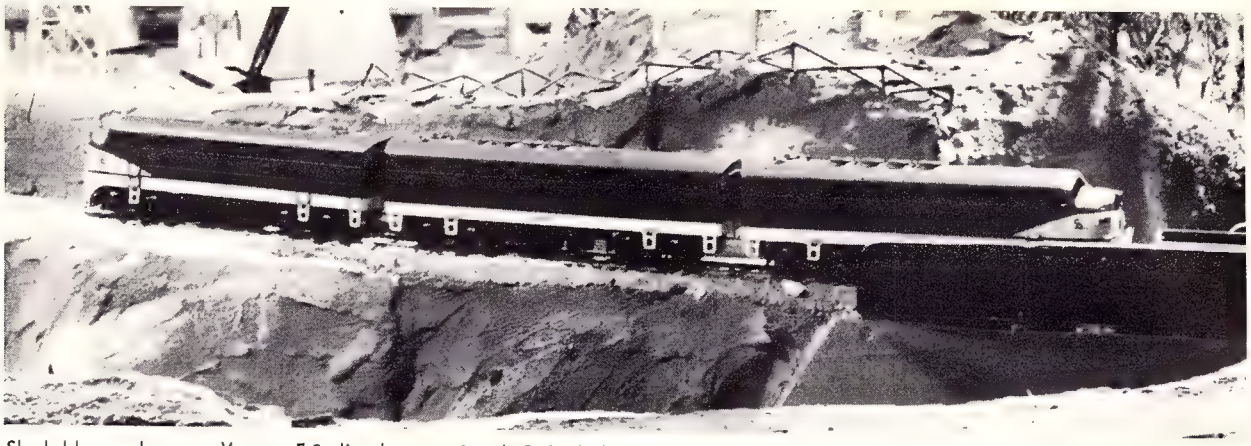
For
Time-of-
Your-Life
RAILROADING
FEATURED FOR APRIL
NEW TANK CAR



Here's the latest addition to MANTUA new series freight cars ... and what a honey it is! The body is superbly molded, and lavishly detailed. Handrails and ladders are preformed and snap into place. Die cast under frame—complete with all under and top side fitting — assures rail-hugging roadability. The finishing touch of perfections is a choice of the colorful insignia of three great oil companies — Shell in yellow — Texaco and Republic in silver. Free-swinging Tyco trucks complete with Mantua Automatic Couples are of course included.

COMPLETE KIT NO. 315A TEXACO $2.45
COMPLETE KIT NO. 315B REPUBLIC $2.45
COMPLETE KIT NO. 315C SHELL $2.45

MANTUA
FIRST IN HO
SEE THESE MILES AHEAD MANTUA KITS AT YOUR DEALERS TODAY



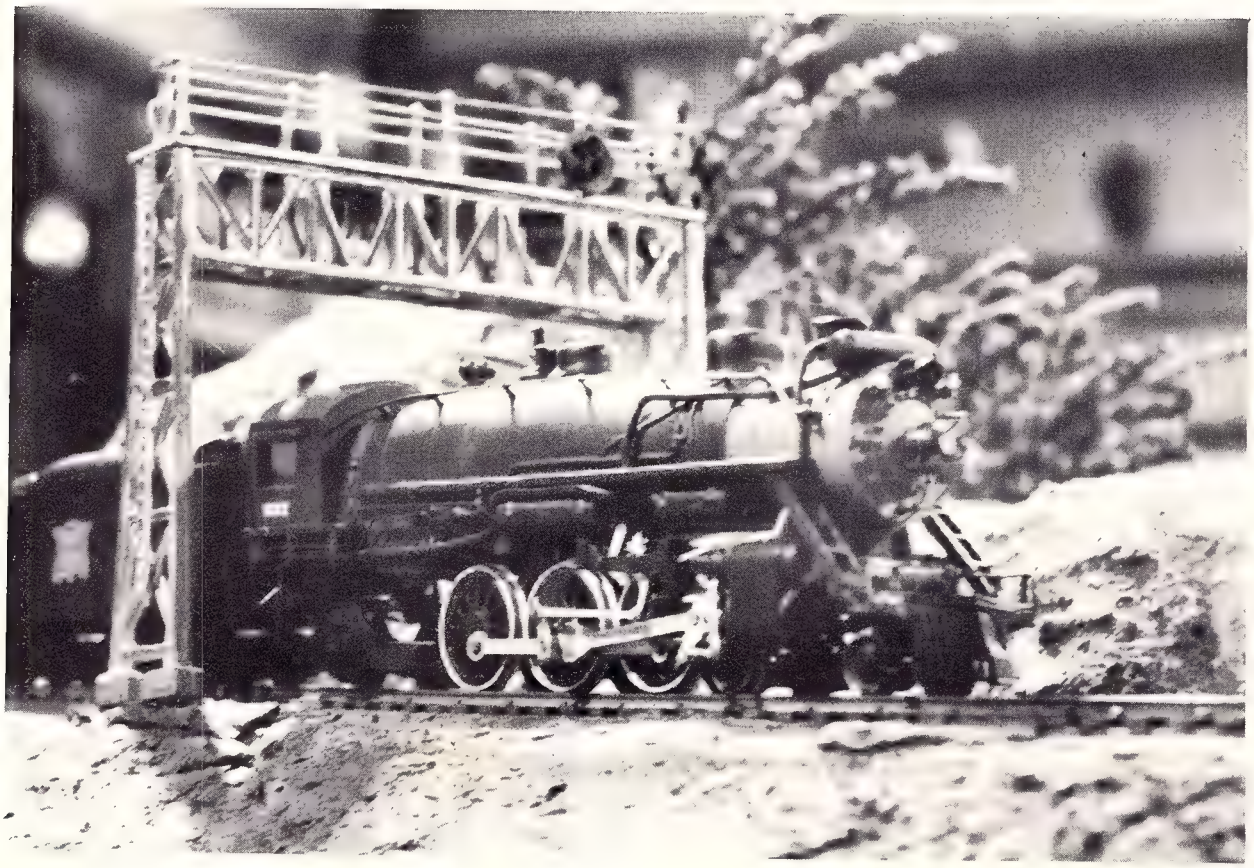
Sleek blue and cream Varney F-3 diesel was painted C & O by Bill Miller; awaits coupling to long manifest freight to be taken over old HO layout of Lake Shore Model Railroad Association. Masking tape, decal stripes, and steady hand, are vital for neat diesels.

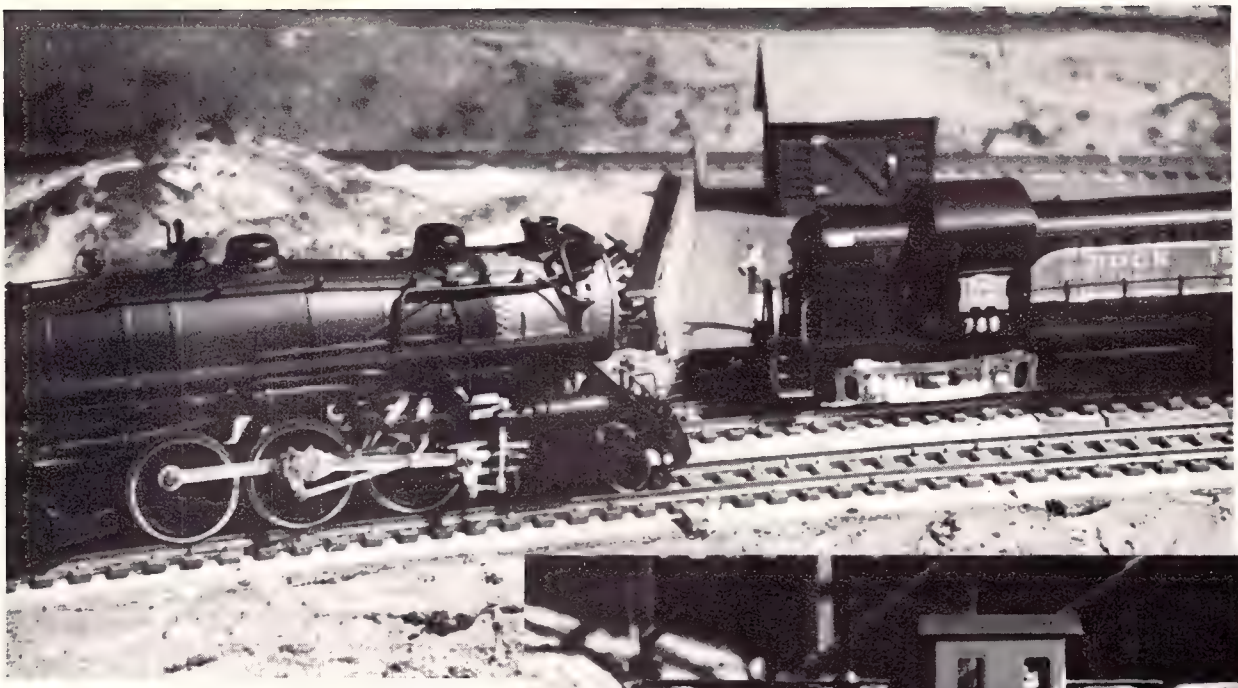
LAKE SHORE MODEL RAILROAD ASSOCIATION

data by A. J. Kamm

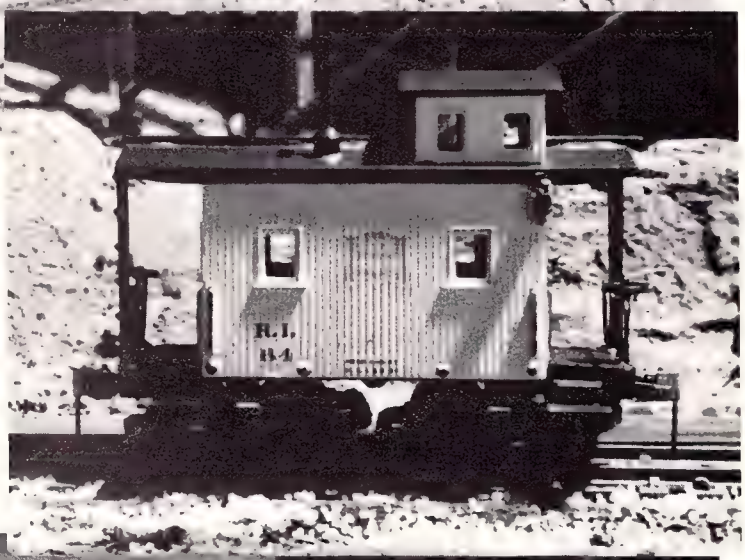
photos by H. Glade

Superdetailed Varney pacific has fittings by Kemtron, Warren, and Mantua. How'd you like to roll this sleek job into your roundhouse?



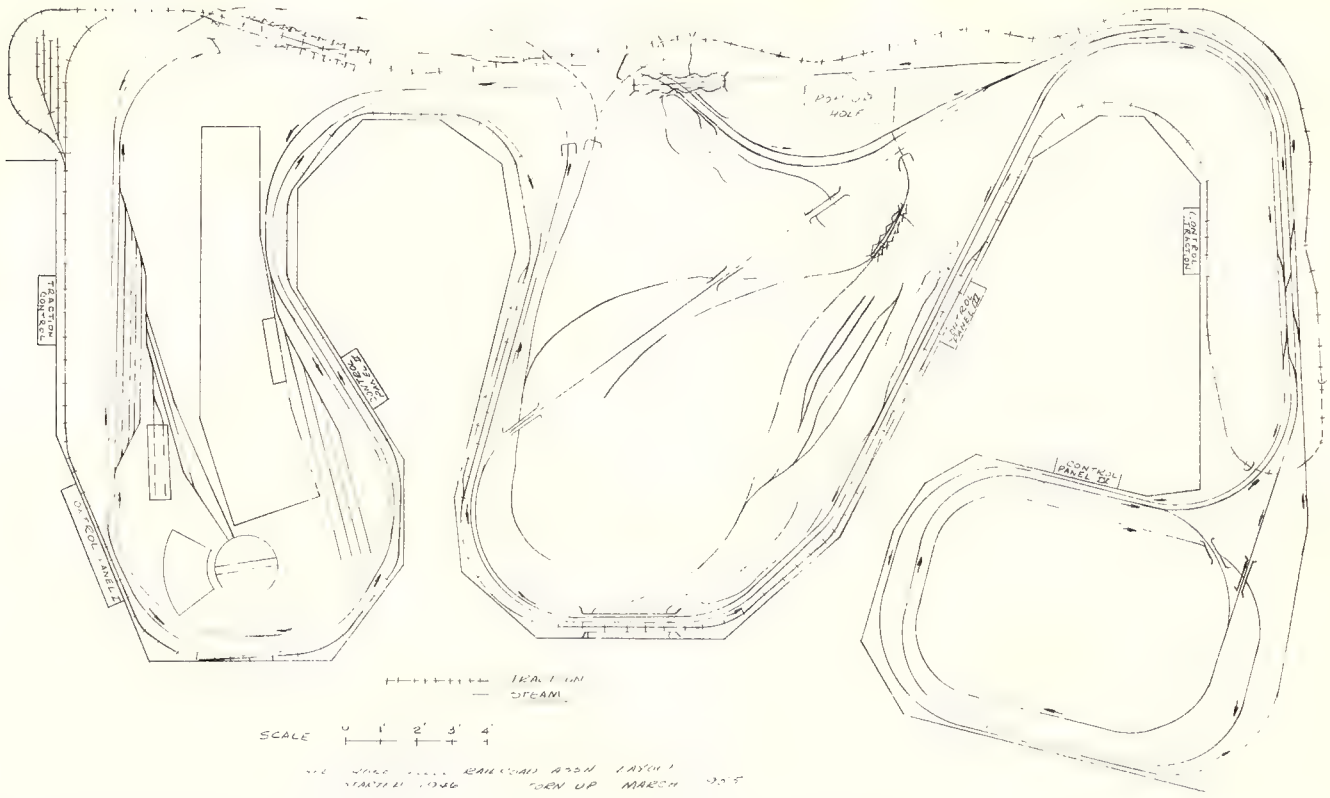


Black and red Rock Island Alco road switcher and steam power meet at suburban station. Note how silver paint on diesel trucks snaps up intricate cast detail, otherwise lost. A number of railroads paint diesel trucks silver, others use grey. Dusty grey is a likely color for all models; still shows up detail.



RIGHT: Rock Island crummy looks as though two hefty, freight hogs had had a push of war, with the hack in the middle. Caboose is Model Engineering Works replica of New York State short line prototype. Model has extra added detail.

Varney and Bowser pacifics, and Red Ball Alco diesel; all owned by A. J. Kamm. The clubs layout offered much in way of scenery, bridges.



SHOWN on these pages are photos of the recently abandoned HO layout of the Lake Shore Model Railroader's Association, of Illinois. The old layout featured both an extensive railroad and a large interurban line. The pike measured 22 ft. by 40 ft., whereas the new layout now under construction measures 25 ft. by 80 ft. which will make it one of the largest HO layouts in the country.

The scenery on the old layout, while simple, was well executed and very clean, providing a truly fine setting for the trains operated. The photos on the opposite page show one of the features on the old line. The spidery trestle and bridge were built by Don Columb to cross over Dismal Creek. The manner in which the photographer has angled his lights to make it appear as though it was actually sunlight that was bouncing reflections off of the highlight-painted water shows how realistic an HO layout can really be made. Clean workmanship in the models add to the illusion.

The Lake Shore club welcomes new members. Prospective applicants should contact Al Kamm, Sec'y., 2527 Union Street, Blue Island, Illinois.

ON many occasions we Railroad Modelers have had the pleasure of viewing the other fellow's layout. Large or small, we always find them very interesting.

Ordinarily we expect to see something different and usually do, such as track work, structures, scenery and layout design, or maybe a new gadget or device which we can duplicate and add to our home layout, improving the appearance or operation.

The average rail-fan is very observant of the other fellow's handicraft and at times would like to criticize some portion of his layout. DON'T! Don't ever criticize—no one likes to have a person define the merits of his work, especially if he built it himself, and too, that is a good way to have your pass or visiting card revoked.

I have had the pleasure of viewing several large layouts, and two of them were built by men considered to be experts in the field of modeling. Everything on the two pikes was detailed to perfection. The scenery was the most beautiful work of art I had ever seen. In fact I was absolutely spellbound to see the multitude of color worked into the setting of each.

One of the pikes displayed a midsummer scene—the many shades of green trees and flowering shrubs just seemed to melt into the grass covered earth and lofty mountain sides, while the other featured an artistic representation of late Fall—the coloring of foliage on the trees and shrubs was profuse—and the groundwork was beautifully done in many colors of brown and jade green, and the structures too were designed and built by expert hands.

Now! With all the beauty that I have described about these two layouts, I did find fault. Mind you now, I'm not exactly criticizing—I am merely trying to bring out a point. The point is, that the expertly designed structures were just set on top of the beautifully done ground work! I explain it like this—two corners of the building were on the ground and the other two corners were off the ground a scale foot or two.

Could be that the fellows set the buildings in place and intended to cut recesses in the earth base at a later date, but just never got around to it. Anyhow, I think this sort of neglect ruined the appearance of these two fine models and with that thought in mind, here are a few pointers as to how I finish all my models with an

Earth Type Base

Definition—The building sets down in the earth. The foundation appears to be buried in the ground for better appearance. Recess in ground for structure to set in.

Discussion Of Materials

Durham's (hard rack) water putty and/or Schalk's wood putty are the two materials I use for the earth fill around the foundation of buildings. However, I prefer to use the Durham's water putty as a ground fill around structures, as it is more of a clay earth color and should I desire to imitate grass, sand or real dirt in addition to the clay color, then I sprinkle the extra materials on the water putty while it is still wet.

For highways, sidewalks and driveways, it is best to use the Schalk's wood putty and when the material has hardened scribe lines or blocks with scribing tool.

Both of these materials come in one pound and five pound cans at thirty-five cents per pound, and can

EARTH TYPE BASES

by Lloyd Giebner

Your buildings should set into the ground, not just lay haphazardly on top. Here's how a real model builder finishes off his own replicas, for realism.

be bought at any paint store. Both are in powder form and are mixed with water, not a thin mixture but thick enough to pour. Do not mix up much at a time, as it sets within fifteen minutes and should not be worked after it sets. The material dries hard in about two hours and can be drilled, chiseled, carved, or you can drive nails into it and it will not crack or chip, and another good feature, it does not shrink.

How-To-Do-It

Let's say our finished building is ready to be placed on the layout, and at the chosen spot you have a light coming up through the table top or wood base to illuminate the interior, naturally you will want to remove the structure from its base to replace burned out bulbs. So! It must be accessable.

Step No. 1—Apply vaseline or lubriplate all around the bottom of the building, and about two scale feet from the bottom up on all side walls, (see photo No. 1) as this grease method is to prevent the water putty from sticking to the side walls of the building.

Step No. 2—With a wet rag moisten the wood base where building is to be placed and the area to be covered with the water putty.

Step No. 3—Secure building in position on the wood base with small pins (see photo No. 2), mix the desired amount of Durham's water putty powder with water to a consistency of griddle cake batter (not too thin, just thick enough to pour) then pour the mixture all around the building and the area to be covered (see photo No. 3)—about ⅛ inch thick around building. Immediately (work fast with this water putty) sprinkle on the extra materials such as grass, (Walthers grass V-333 green Tex-Kote is best to use) sand or real dirt—after extra material has been added, tap wood base with hammer lightly to level off the water putty fill.

After about two hours the material will be hard and dry, remove the pins which held the building in position, then move the building backward and forward and from side to side a few times, then lift up (see photo No. 4) and out it comes.

Using this method of recessing your structures gives them that realistic appearance and a rightful place on your layout. You will like this idea and here is the reason why. After a year or two you will want to tear down your first pike and rebuild, and had your structures been permanently fixed to the base you could never use them again. But with a recessed base, they are always reusable.

Highway and Sidewalks

Say I wanted to build a highway twenty scale feet wide, I would draw my center line and then ten feet to each side of the center line I would nail down (use ¼ inch pins) ⅛ inch square greased strips to imitate forms, then I would moisten the wood base n between the forms and pour in a mixture of Schalk's wood putty, (mix with water just thick enough to pour) enough to fill level with top of forms—tap lightly on wood base with hammer to level mixture in between forms. When dry remove forms, then scribe lines about eight scale feet apart the full

These are the tools and materials required to do a first class job in making up earth type bases for structures. Chances are you already own the necessary tools. Get putty at hardware or building supply stores. Dry powder colors can also be added to the mix before applying.

length of the highway to represent block dividers. Usually before I scribe the block divider lines on the highway I mark my center line on the highway surface with black India ink and should I have any curves or hills, I use yellow markng on each sde of the black lne accordngly.

For sdewalks use the same method of construction with the forms. However, should you want a street with residences on each side, put down the street first (only 1/16 inch thick). When hard remove the street forms and replace with a curb (stripwood 1/16 inch wide x 3/16 inch high), this curb is left in permanently. The V-333 grass parkway between curb and sidewalk, the sidewalks and lawn around the residences will be a wood putty fill of 3/16 inch thick.

You can never imagine how swell this arrangement looks until you have tried it.

Other uses for these water putty mixtures around a model railroad are many. For instance, you can make beautiful models of concrete bridges and culverts (be sure to grease your forms before pouring in

the mixture) and best of all the material dries a natural concrete color and doesn't need any paint.

Also you can fashion any shape figure desired by using a wire form. Just dip the wire form in the mixture a few times until you get the thickness and shape of the body.

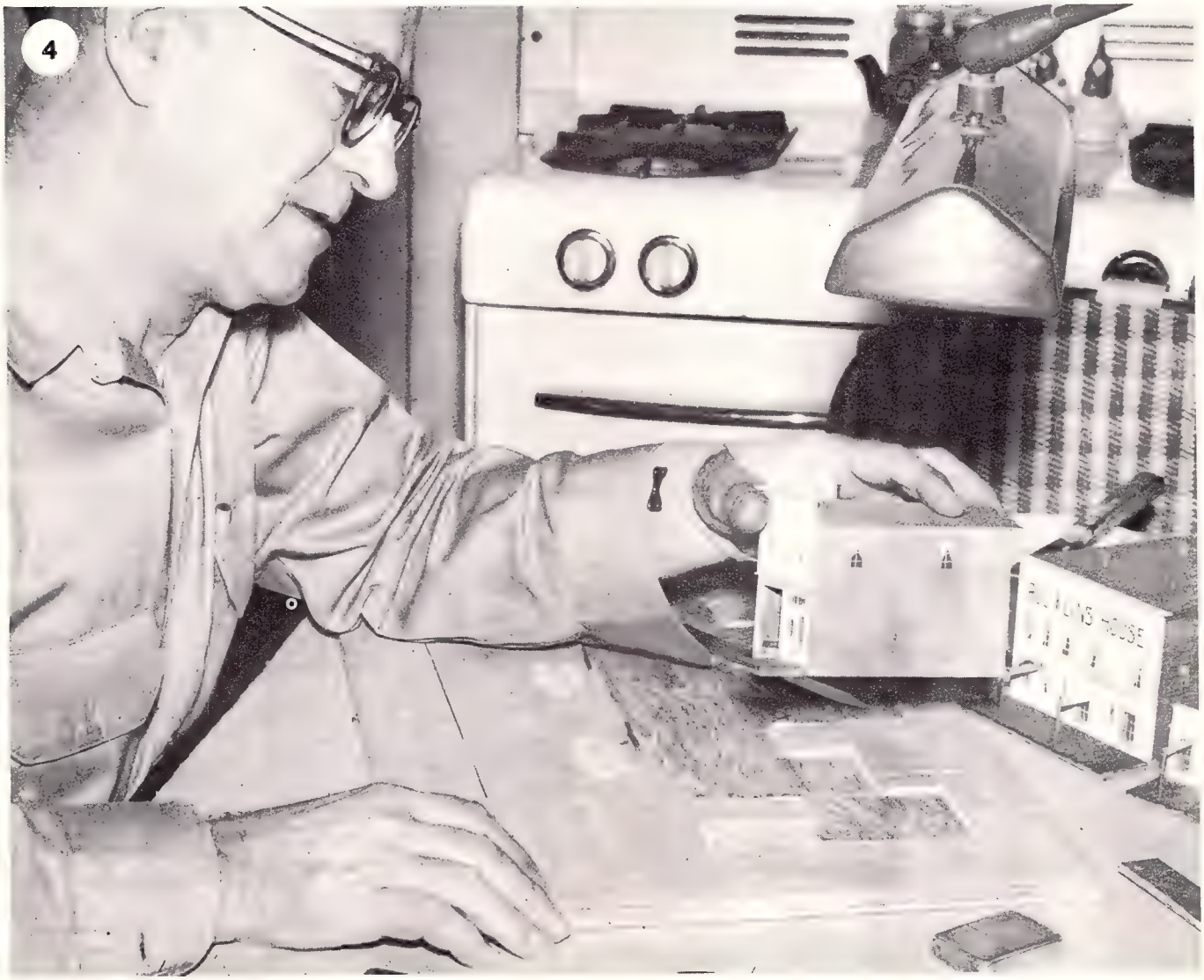
Try these ideas and you will be pleased with the results.

1—Lupriplate, or any similar lubricant, is applied to the base and bottoms of all side-rails to prevent the water putty from sticking to the buildings. All buildings which are to be inserted in the putty-earth should be treated in this manner to permit easy removal later.

2—Small pins are used to fasten the building in place, prior to pouring on the water putty.

3—The water putty mixture has been poured around the building and fine sifted sand has been added. Sand is being worked around the building with a trowel; smootheining ground.

4—The building is lifted from the hardened water putty fill and a perfect recess is visible. Note clean cut lines, thickness of base. •



CAMELBACK CONSOLIDATION

LONG ISLAND RAIL ROAD CLASS H-51A BALDWIN 1903

by
Frank Gunther

You can't call yourself a real model builder until you've at least one scratch built loco under your belt. Commercial fittings and simple hand tools make this hog easy to build.

I THINK it would be wise before starting to build this engine if you would buy all the parts listed on the next page. I realize that you may not be able to obtain some of the parts without sending away for them. If this is the case and you don't want to waste the time, buy something similar to the part you want and reshape it to meet your needs. For example, I could not find domes for this job, so I bought Kemtron K-404 domes and reshaped them in a hand drill. This is all part of the fun of scratch building.

The first step that I take in building an engine is to cut out all the pieces needed to build up the main super-structure, as follows:

Boiler
2—Cab Fronts
2—Cab Sides
Fire Box Shell
2—Ends for Fire Box
Cab Roof
Fireman's Roof
Running Boards (Roughed out to be shaped later)
2—Main Rods as per plans to be fastened to the Mantua Crossheads

Constructing an engine in this way will give you a good opportunity to make parts in duplicate as done in the case of these two Camelbacks. I believe it is almost as easy to build two as it is to build one. It's just a matter of doing each step twice. The second step is much easier because you learned on the first.

Most of the parts to be cut out can be measured and scribed off from the plan on brass or whatever material you are using. I have listed below the hard-to-get measurements which cannot be obtained from plans.

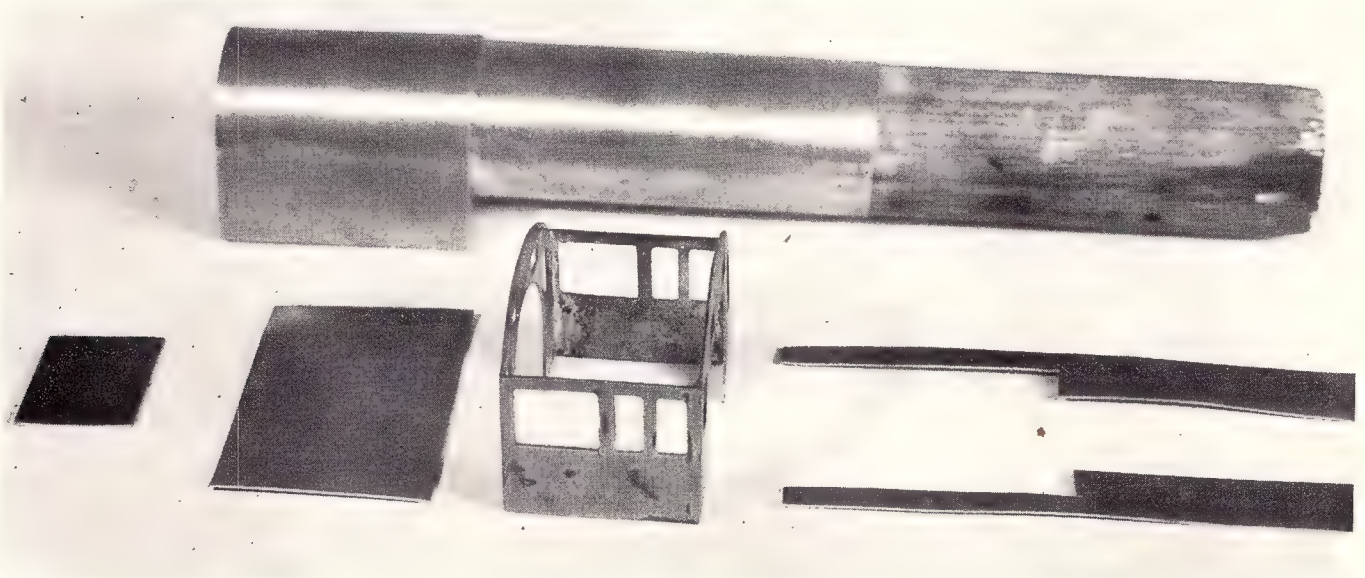
Fire Box Shell—3"x1-½"
Cab Roof—1⅞"x1-⅛"
Rear Cab Roof—⅞"x11/16"
Boiler—2⅞"x2-¼"
Tender Side—3-5/16"x⅞"

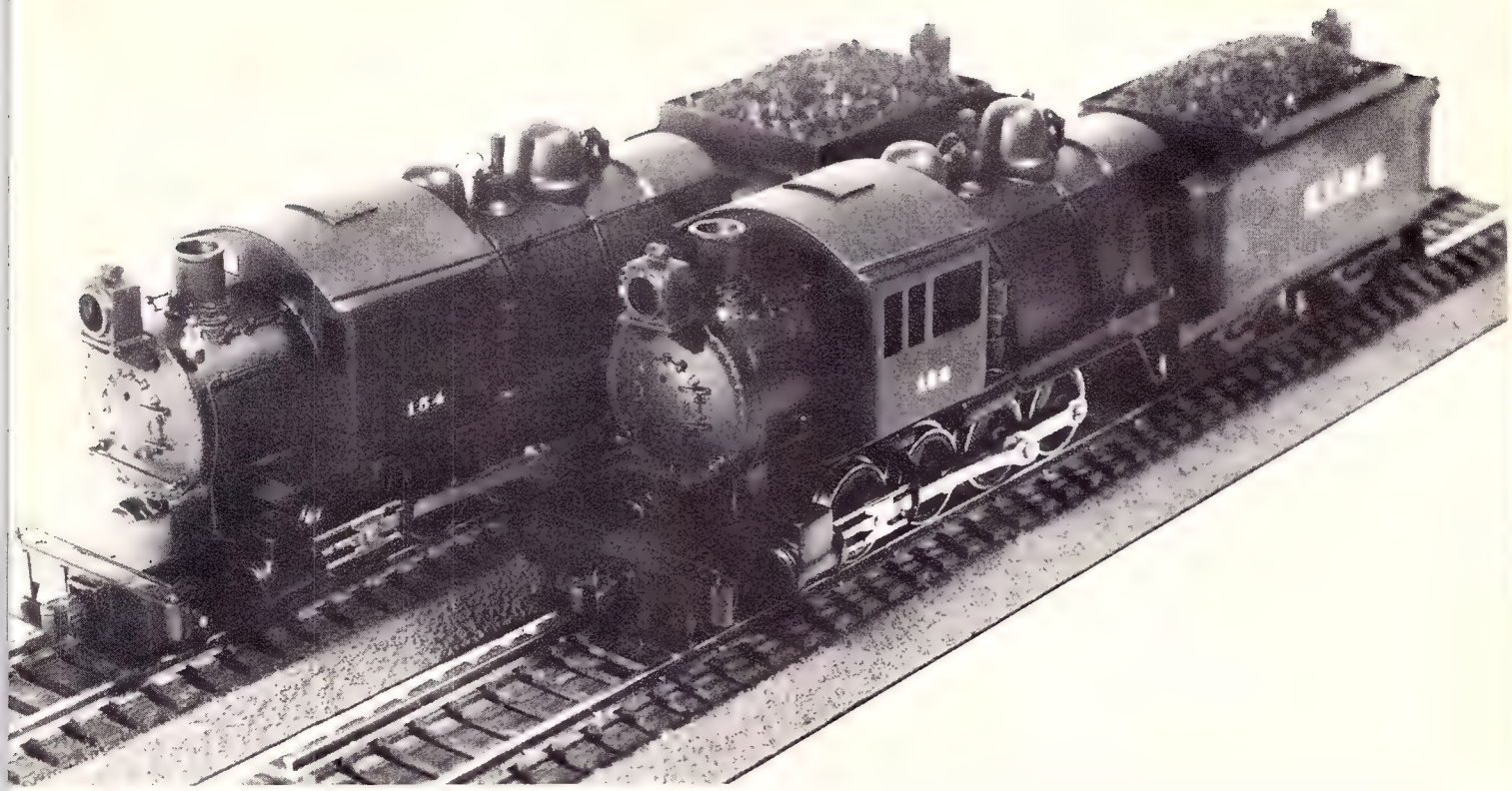
Special shapes such as the fire box ends and cab front, back and sides can be obtained by cutting out the part to be made from a photostatic copy of the plans or the plans themselves and gluing it to the metal you are using. You can then cut and file everything to the exact shape that is needed.

I would also like to suggest before you start building this engine that it is essential to clean up your work after each piece is soldered on. I have quite an assortment of cleaning equipment. You will probably have your own. Mine consists of small files, steel wool, emery cloth, Samay, Babo, Gre-Solvent, brass suede brush and tooth brush. This is one of the phases of scratch building an engine that I enjoy most. I realize that you wil probably become disgusted at this point if it is your first engine, but believe me your efforts will be rewarded when you show off the nice clean finish of your Loco to an envious friend.

Boiler

The piece of brass previously cut to size is formed around a ⅞" dowel and soldered where the seams over lap. The overlap should be about





The author built two of these clean looking HO freight hogs from brass stock, commercial parts, and time. Since he lacks any power tools, he had special frames made to order from Joe Dorazio. The completed engines are so different from any of the commercially available locomotives that they attract attention as soon as they are seen. It's quite a sight seeing them doubleheading a slow freight up a curving grade.

⅛". The ⅞" dowel should be kept in the boiler until the smoke box is ready to be installed. This protects the boiler from being crushed or dented while being worked on.

Fire Box

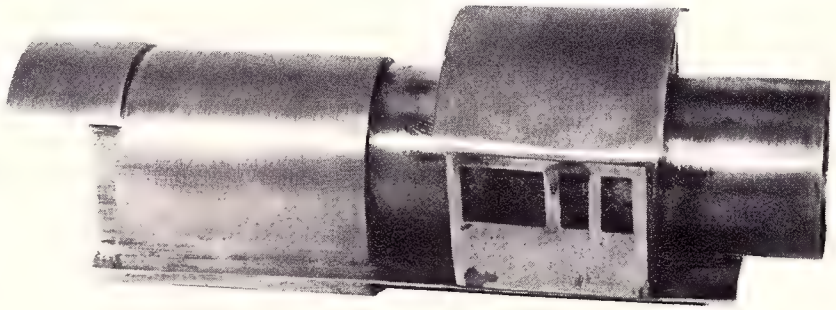
Solder the fire box to one end of boiler keeping the seam on the under side. Clean off excess solder. Take the piece of brass for the fire box shell which has been made a little bit longer from side to side. This extra material can be cut off later. Solder this piece to the top edge of the fire box front. Make all soldering joints from the inside of fire box. This will give you the oppirtunity to add plenty of solder for a good joint and give you a neat looking job on the outside. Next, take a block of wood approximately ¾" in width, put this in a vise or nail it to the work bench. Spike the fire box on both sides perpendicular to the surface of the block. Solder spikes to fire box back. Now take the back edge of fire box shell with boiler attached and force it down around the end which has been spiked down. If everything has been cut square, this method should line the back and front of the fire box up parallel. Tack solder in a number of places on the outside and finish the soldering job on the inside while the work is being held in place in a vise. Place a piece of wood on either side of work. This will insulate against heat being drawn away by vise. Cut and file off all excess metal and solder. The fire box should have an overhang of about ⅛" on each side.

Cab (Engineer)

The cab is always a touch hurdle because of the windows which have to be cut out. Take the photostat and cut out the side and front views of the cab. Glue them to the two sides, which have been temporarily sweat soldered together in order to duplicate both sides at once. Follow the same procedure for front and back of cab. Now, center punch and drill a hole in center of each window. Use a drill large enough to insert a small square file. With the photostat template as a guide file out the windows and boiler hole.

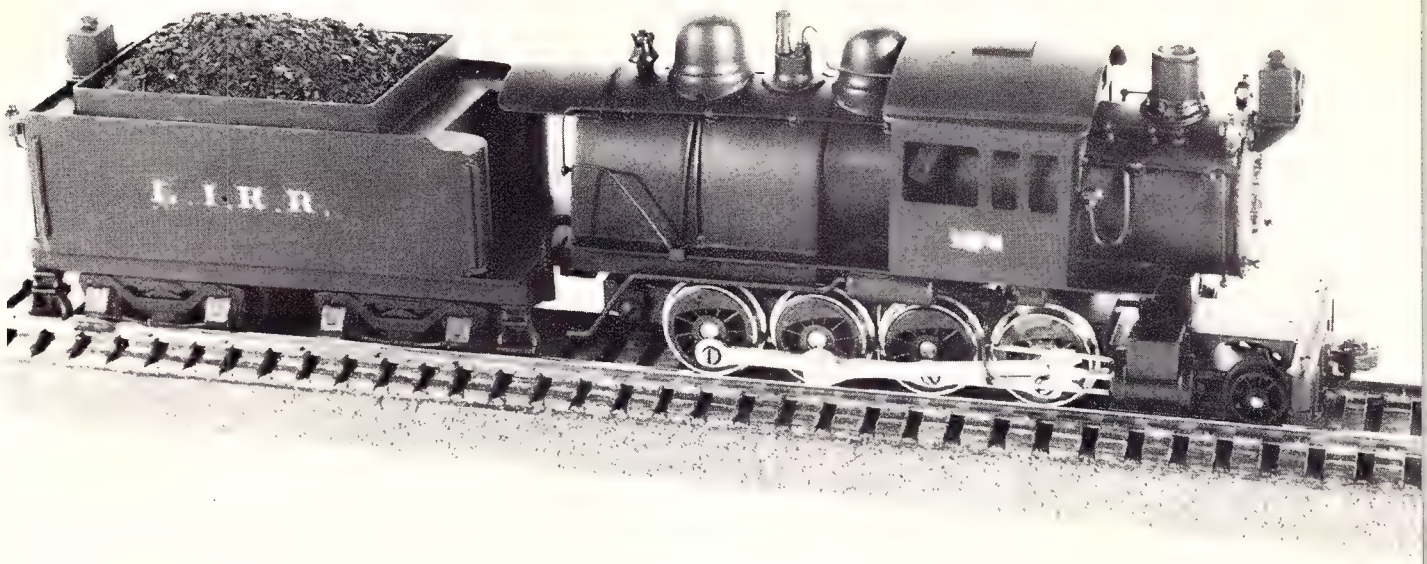
Unsolder the cab sides and front and back pieces and clean off all excess solder with fine emery paper. When the pieces are clean, tin the edges and solder sides, front and back together forming a perfect square. Take the cab frame and slip it over the boiler. Set it in the proper position and solder from the inside, being careful that the hot iron does not loosen up the cab sides. This can be avoided by not holding the iron in one place too long.

The cab roof should be cut to the proper length, but should be left longer from side to side. Solder one side of the roof to the top edge of the cab side. Make sure that this piece is put on straight so that as you bend the roof down to meet the other side it should set squarely on top of the cab. When you have attached this side ot the roof, excess metal and solder can be filed off.

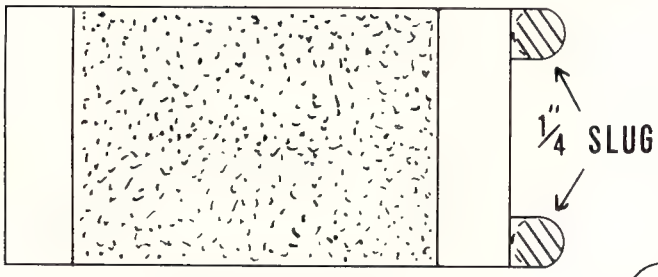


Engine parts are first cut from brass stock roughly to shape; are finished to correct size and shape by filing. Parts are soldered together; a simple task when using brass.

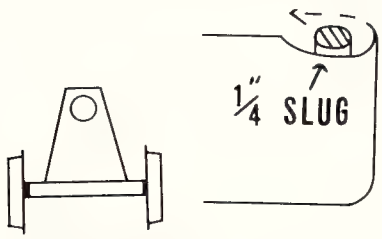
Completed boiler ready for addition of cast fittings purchased commercially. Wood form shown in photo at left was used to shape the boiler; is left inside boiler throughout assembly to prevent damage during rough handling. None of this work is critically fine but does require patience; a love for careful work.



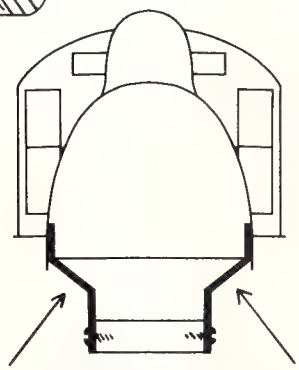
Models follow prototype closely. LIRR class H-51a originally had pilots, spoked pony wheels. Later changes were substitution of switcher type pilot, piping, solid pony wheels.



TENDER TOP VIEW



FRONT TRUCK



REAR MOUNTING BRACKETS

The roof corners can be shaped at this time. The back and front of the roof need not be soldered to the cab if they were fitted properly. This method of putting on the cab roof keeps solder away from hard to get at places and so avoids cleaning up.

Cab (Firemen)

Cab roof is preshaped to fit over the 7/8" dowel and then sweated on to the top of fire box.

Running Boards

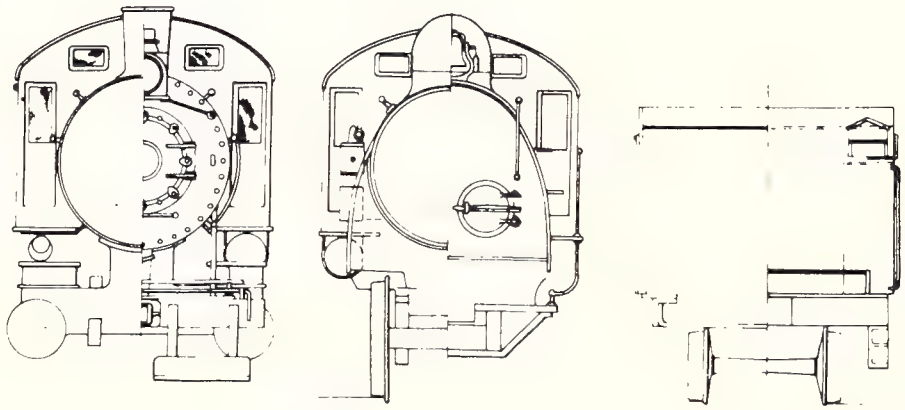
The strips which were roughed out for the running boards can now be cut, filed and fitted to the boiler and fire box. The running boards should be soldered on from underneath. With the dowel inserted in the boiler turn the assembly upside down and clamp the dowel tightly in a vise in order to cut out hole for motor. With a razor saw, make a 3/4" cut into the boiler along the edge of each running board from back to

PARTS REQUIRED FOR H-51A 2-8-0

	4 marker lights, MDC
P405A	2 headlights, Kemtron
K404	2 domes, Kemtron
L201	1 stack, Budd
L201	24 short handrail posts
	Frames. Custom built or refer to article by Bill Schopp in previous issues.
2942	Boiler front, Mantua
3673	Pilot, Mantua
2653	Cylinder Block, Mantua
7674	Air Pump, Mantua
7675	Air Pump, Mantua
8181	Brass Bell, Mantua
8182	Bell Crank, Mantua
8183	Bell Bracket, Mantua
25036	3 pr wheels and axle 50", Mantua
25060	1 pr wheels, axle with gear, Mantua
33553	Motor with 6646 worm attached, Mantua
17105	Crosshead assembly, Mantua
34711	Tender trucks, Mantua (Not available from factory, substitute if necessary)

Also handrail wire, side rod screws, decals, couplers, etc.

FULL SIZE HO GAUGE



front. Make a cut crosswise at the end of the ¾" cuts and break out this piece. With a small hand powered grinder grind out a hole in the front fire box plate large enough to accept the PM-1 motor.

This step could have been done earlier before assembly, but I like to have the two fire box ends intact in order to level them up as explained previously.

Detail

Domes, stack, cab hatch, rain gutters, pumps, cylinders, handrails, etc., can be added.

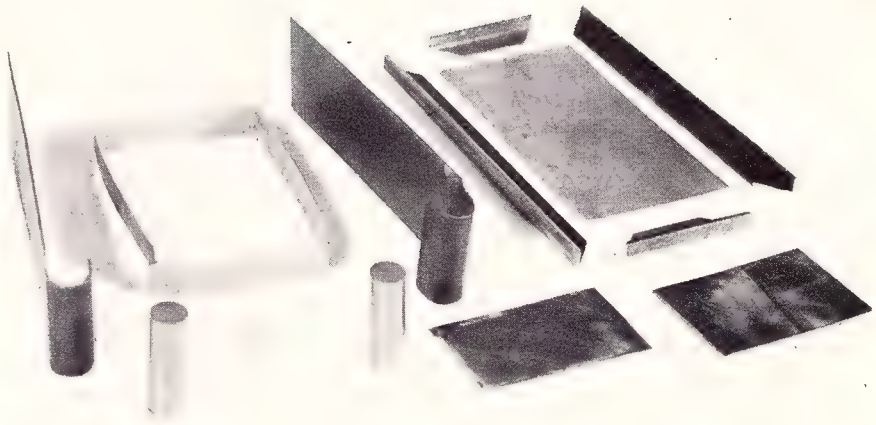
If the smoke box front does not fit snugly enough, wrap a piece of paper around it and force it into the boiler. It will be held in place by the studs on the handrail posts. Two holes should be drilled at the top of the smoke box front to accept the mounting studs of the headlight. The holes should be slightly smaller so that the studs can be filed down in order to get a tight fit.

The short stack that the whistle is mounted on is the Mantua smoke stack filed down to size and sweated on to the boiler and filled with solder. Excess solder can be filed off.

The boiler will be fastened to the frame in the front by a long screw which will be threaded through a hole in the frame, boiler mount and smoke box. This screw will also support the front truck which will swivel freely if it is not screwed up too tightly.

The rear brackets can be mare from strips of brass bent to shape as per sketch and then soldered to the inside of the fire box. The ends of these strips and the frames can be drilled and tapped after adjustments have been made to assure that the boiler is sitting straight.

The front truck mounting bracket will have to be shaped according to the radius that your engine will run on. Mine was made from 1/16" inside diameter brass tubing. The axle of the front truck is inserted in the tubing and the wheel pressed back on.



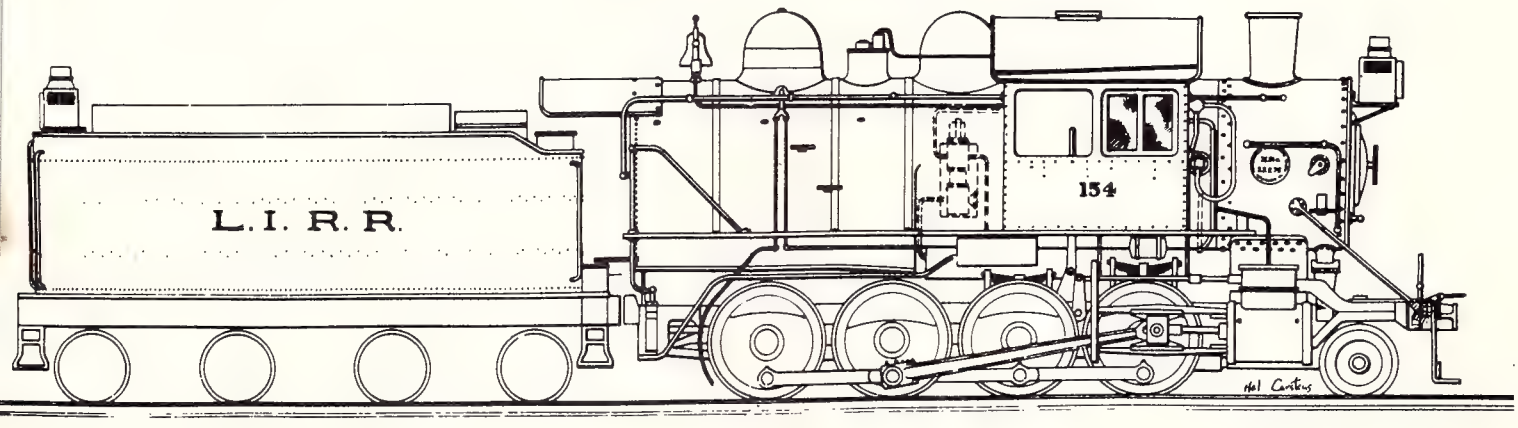
TOP—Basic tender parts ready for assembly. Note mitred frame parts at right. Tender is made from sheet brass although tinplate or copper could also be used; all solder easily.

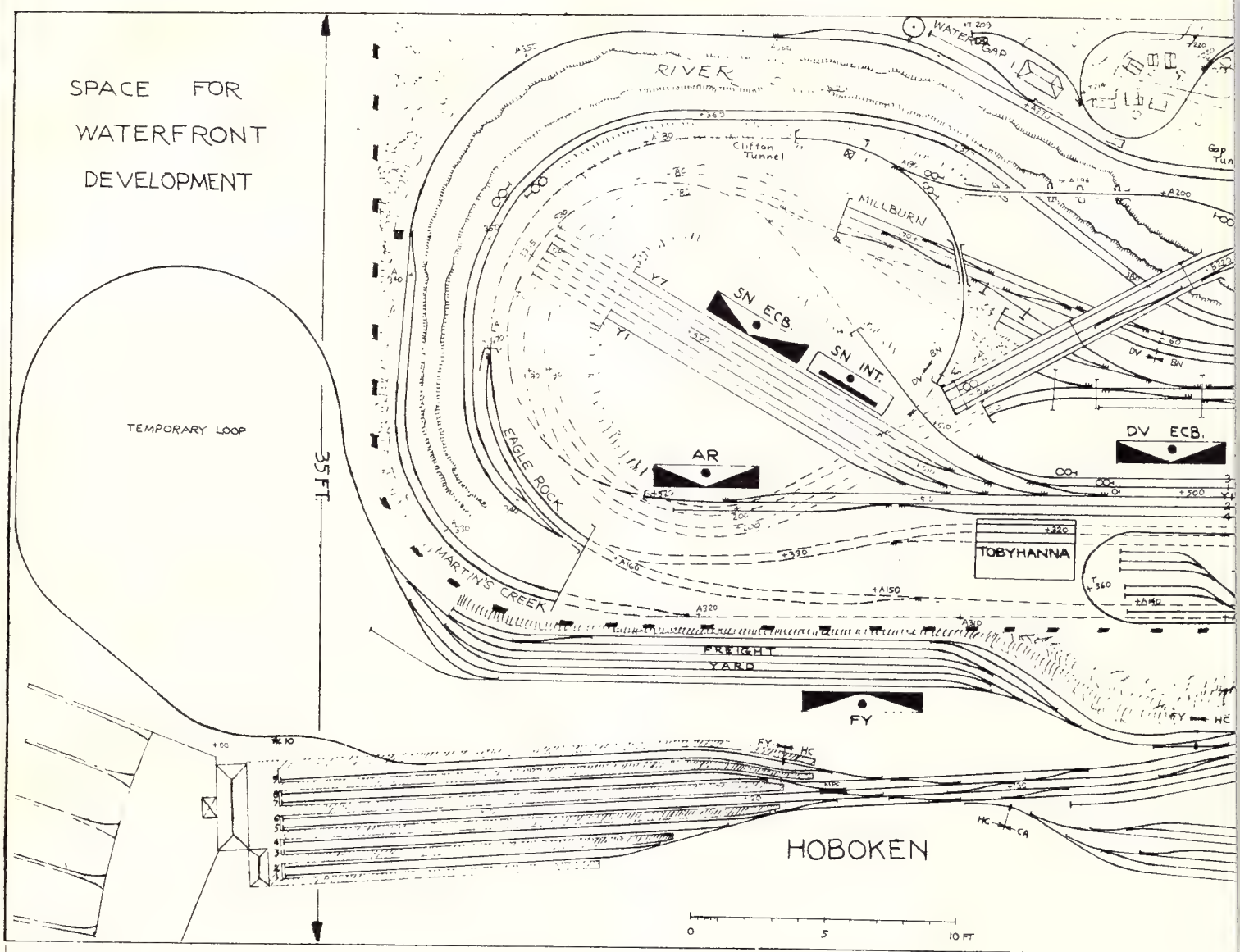
Tender

The tender floor is made from a piece of flat stock 3-3/16" x 1-⅜" soldered to a rectagular frame made from ⅛" angle brass. The front ends of the sides are shaped around a ¼" dowel and bent back to meet the tender front (See Photo and Sketch). Now solder the sides, front and back from the inside to the tender floor. You will notice that there are now two holes which have to be filled in. This can be done by taking two pieces of ¼" brass rod the correct length and inserting them into each hole. Fill with solder and file off excess. Now, fit a piece of flat stock into the top of the tender, approximately ⅛" from the top of tender side and solder in place. If you have trouble holding this piece while soldering, drill 2 holes closely together so that the ends of a pair of pliers may be inserted. These holes also allow any water to run out which may get into the tender when you are washing and cleaning the parts. The square framework which holds back the coal is made from a strip of shim brass ¼" wide and bent to shape. The bolsters for the trucks are made from the angle brass soldered to the floor. The trucks are held in place by self-tapping screws which bottom themselves on the tender floor. The front truck screw will also hold a washer soldered to the motor wire. This will be our method of picking up current for the engine.

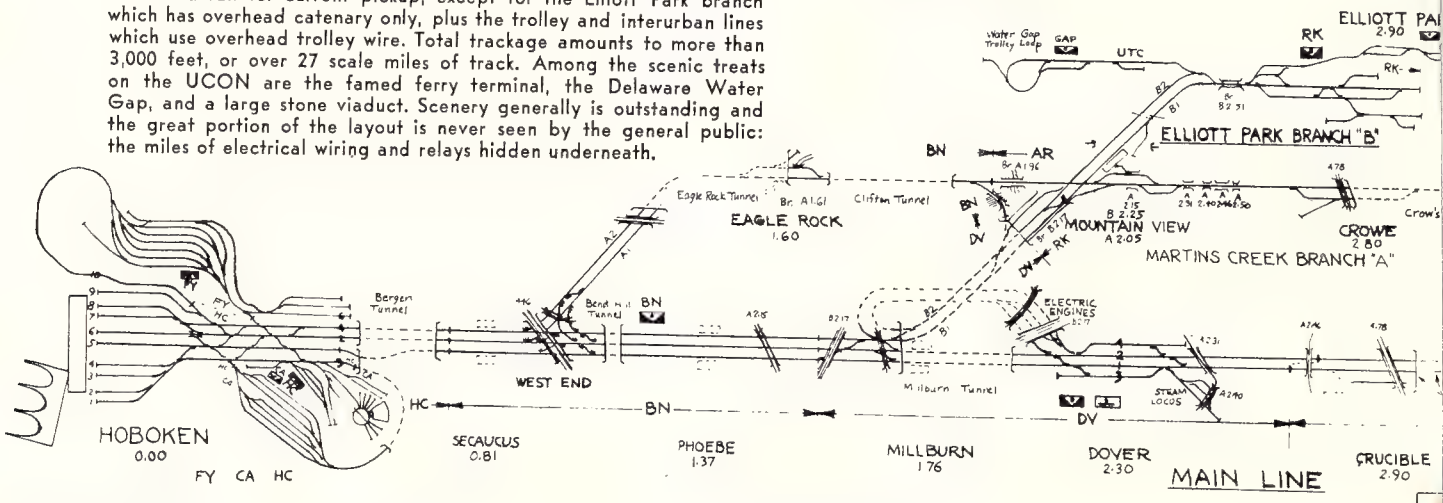
Rear lights, hatch, steps, handrails, ladders, etc., can now be added along with your choice of couplers and road name.

O GAUGE BLUEPRINTS OF THIS LOCOMOTIVE APPEARED IN THE AUGUST 1953 ISSUE OF RMC.



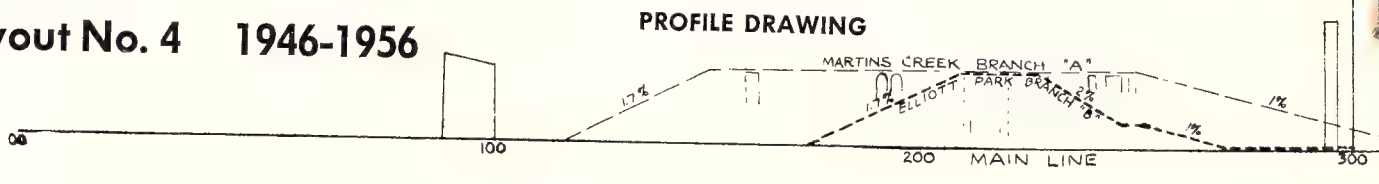


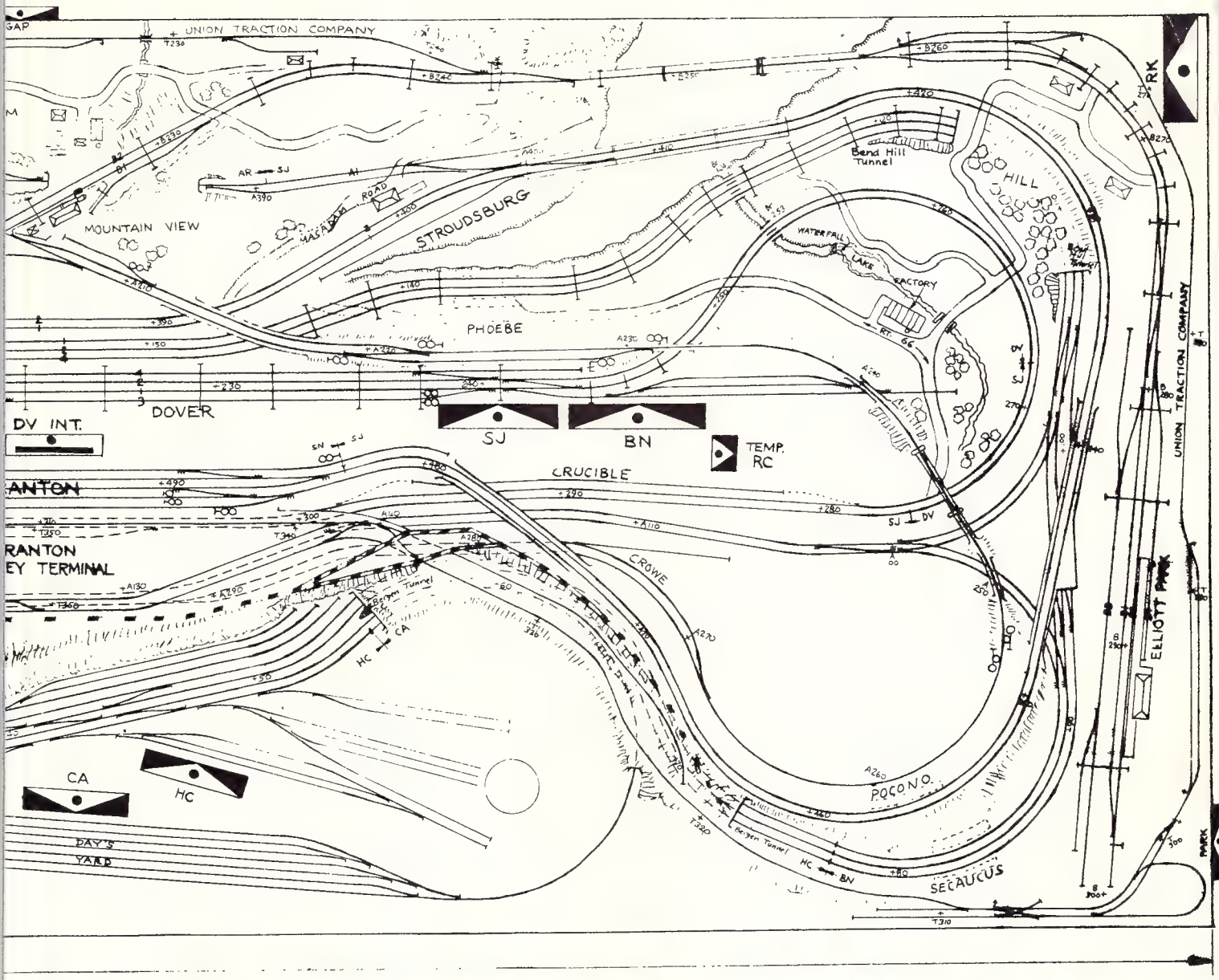
The Union Connecting Railroad is O gauge, 1/4 inch equalling 1 foot. The entire railroad is operated with 12 volts direct current using outside third rail for current pickup, except for the Elliott Park branch which has overhead catenary only, plus the trolley and interurban lines which use overhead trolley wire. Total trackage amounts to more than 3,000 feet, or over 27 scale miles of track. Among the scenic treats on the UCON are the famed ferry terminal, the Delaware Water Gap, and a large stone viaduct. Scenery generally is outstanding and the great portion of the layout is never seen by the general public: the miles of electrical wiring and relays hidden underneath.



Layout No. 4 1946-1956

PROFILE DRAWING

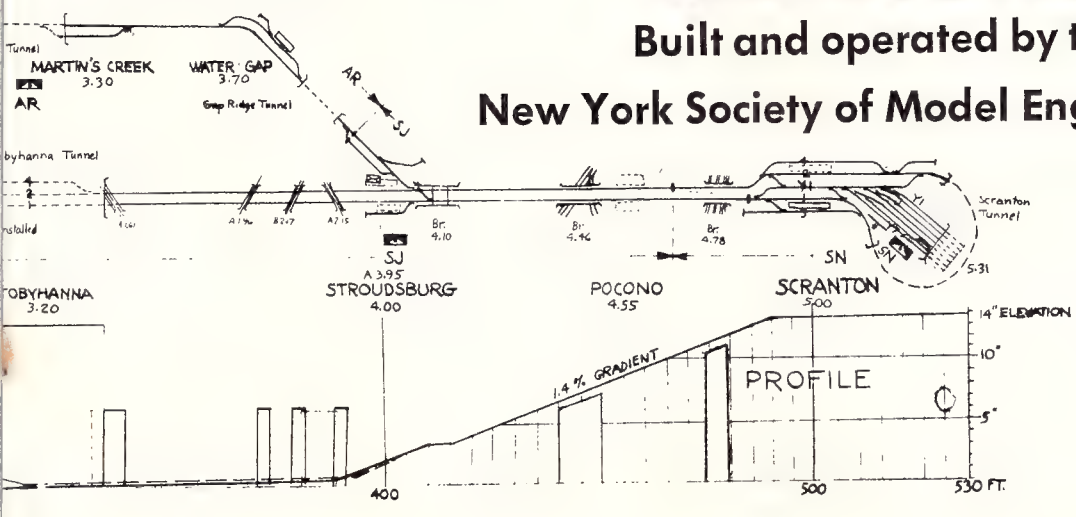




THE UNION CONNECTING RAILROAD

Built and operated by the New York Society of Model Engineers, Inc.

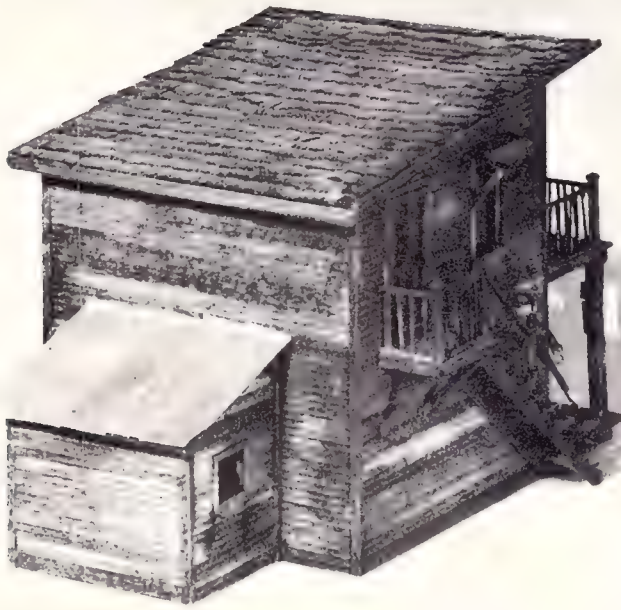
SCHEMATIC DRAWING



This is the UCON, built by the New York Society of Model Engineers Inc. One of the finest scale model railroads of all time, it is the fourth layout to bear the name and the first one to be built in New Jersey, at Lackawanna's Hoboken Terminal. Possibly by the time that this issue is published, dismantling operations will have begun. The United States Post Office is moving into the club's space.

Staff photo by Hal Carstens

ELLIOTT PARK BRANCH
STROUDSBURG
Bend Hills Tunnel
EAGLE ROCK



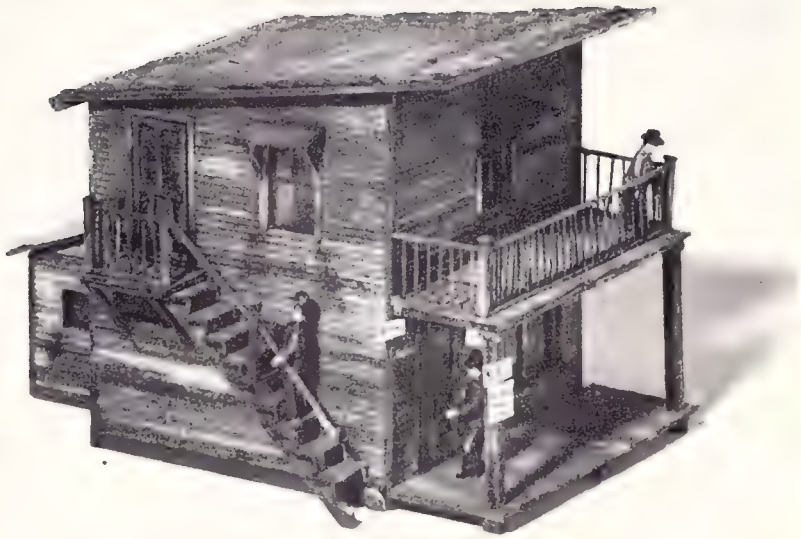
by
Joe Wilhelm

Railroad Cafe & Boarding House

There isn't a railroad junction or terminal worthy of the name which doesn't have a good old fashioned beanery. Add this trainmen's hangout to your pike. It's made of sheetwood.

ABOVE—Read view of the cafe reveals simple but realistic lines which would be ideal for model building. Model is built entirely from sheet wood and wood strips. O gauge model is built from same materials; is only 8" long.

RIGHT: Front view shows more life with several customers wandering about. Old cafe should be spotted across from engine terminal where the old railroaders could keep an eye on their charges as hostlers ready locos for next trip.



HERE is a fine little project for that day off when all you feel like doing is model railroading. The Railroad Cafe and Rooming house is just the thing to fill an empty space along the streets near the railroad yards. My model is painted a weathered red. The porch and its supports are stained light brown to simulate unpainted wood. You should be able to finish this structure in about four hours exclusive of painting.

The sides are made of Northeastern's sidings, and the rest of scale lumber. Start by drawing out the sides on the smooth side of the siding. Draw in the windows at the same time. Cut them out using an X-acto knife with a pointed blade against a scale ruler. Cut out the windows and frame them on the outside with 1"x4" lumber. Do the same for the doors. If you want to build this in any other gauge beside HO take dimensions from the drawings with an HO scale rule and convert them to your gauge. When the four sides are finished, glue on the acetate for the windows. Make the window mullions by cutting a piece of scale wood 1"x1" dimensions, this can easily be done with a sharp razor doing only a short piece at a time. Glue these on the acetate and the sides are ready except for the doors which are made and installed next.

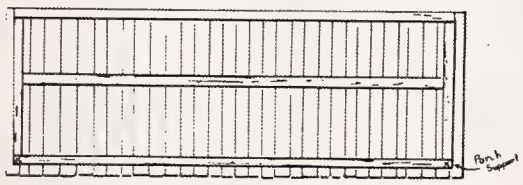
With the sides glued together and squared up, cut a piece of sheet wood for the roof making it as large as the overhang requires. Glue this on and start making the shingles. These are put in one by one, or in strips, which ever method you prefer. They can be made of bristol board or thin wood. Install a gutter pipe at the lower end of the roof with a downspout. Now cut out the three sides for the little room attached to the rear of the building. Do this just like the sides of the main house. The roof on this is simulated tar paper. Put this little room in place on the back of the house.

Now we can start the steps. E. H. Bessey used to put out HO gauge step risers which were just the thing to simplify making steps, I don't know if he still has them. They can be made, using the drawings as a guide, from thin wood or bristol board. The railings are made of 2" x 4" with 2" x 2" risers (made by splitting short lengths of 2" x 4") the porch and sidewalk are made of individual pieces of 1/32" sheet balsa.

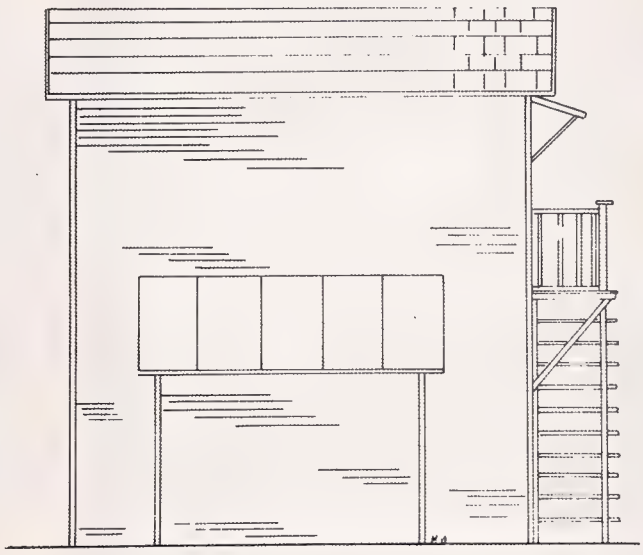
These are pretty sketchy instructions but I don't think you will need more. In fact you will do well if you let your imagination work a bit and perhaps change some features of the structure to suit yourself, such as a pointed roof, making the building twice as long, put the porch on the side instead of the front and all sorts of changes. If I can help please write me care of the RAILROAD MODEL CRAFTSMAN, Ramsey, N. J.

FRONT

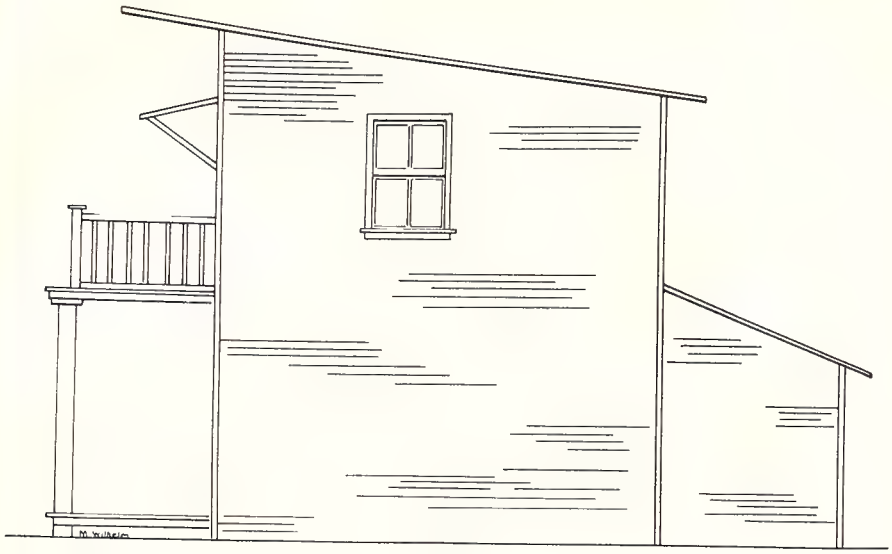
Full Size HO Gauge
Double For O Gauge



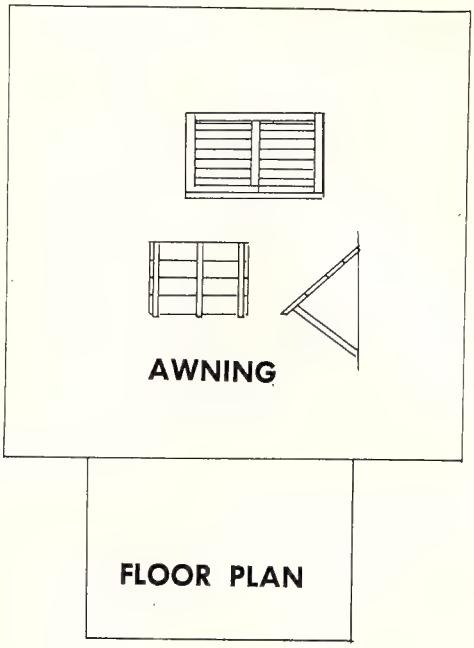
PORCH

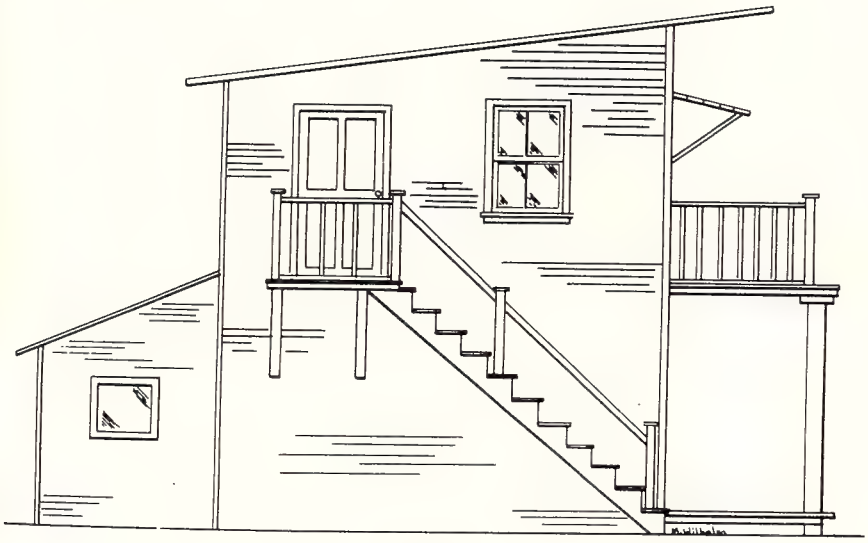


BACK

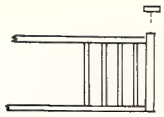


SIDE

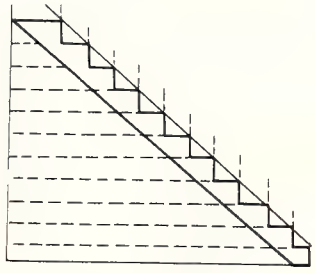




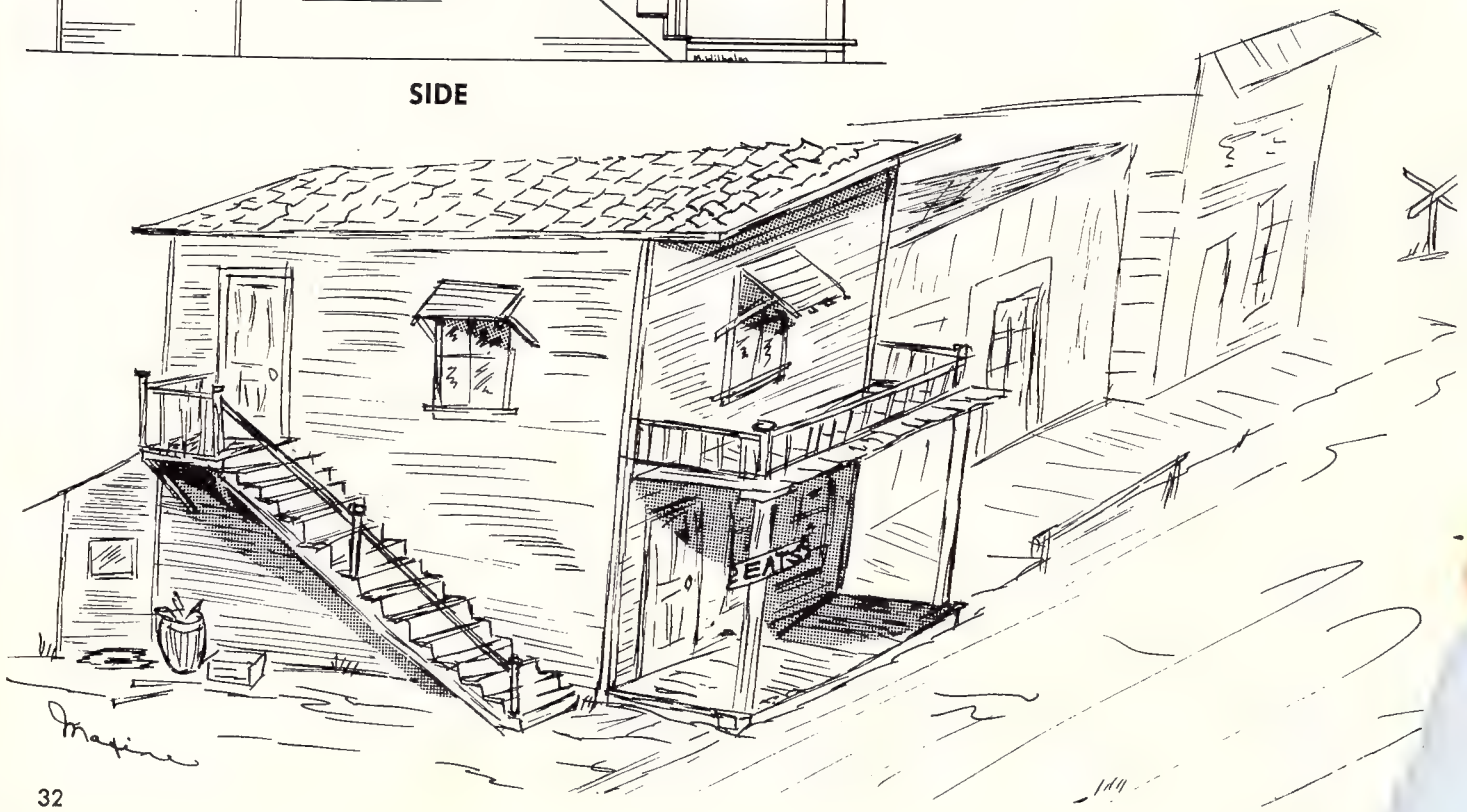
SIDE



RAILING



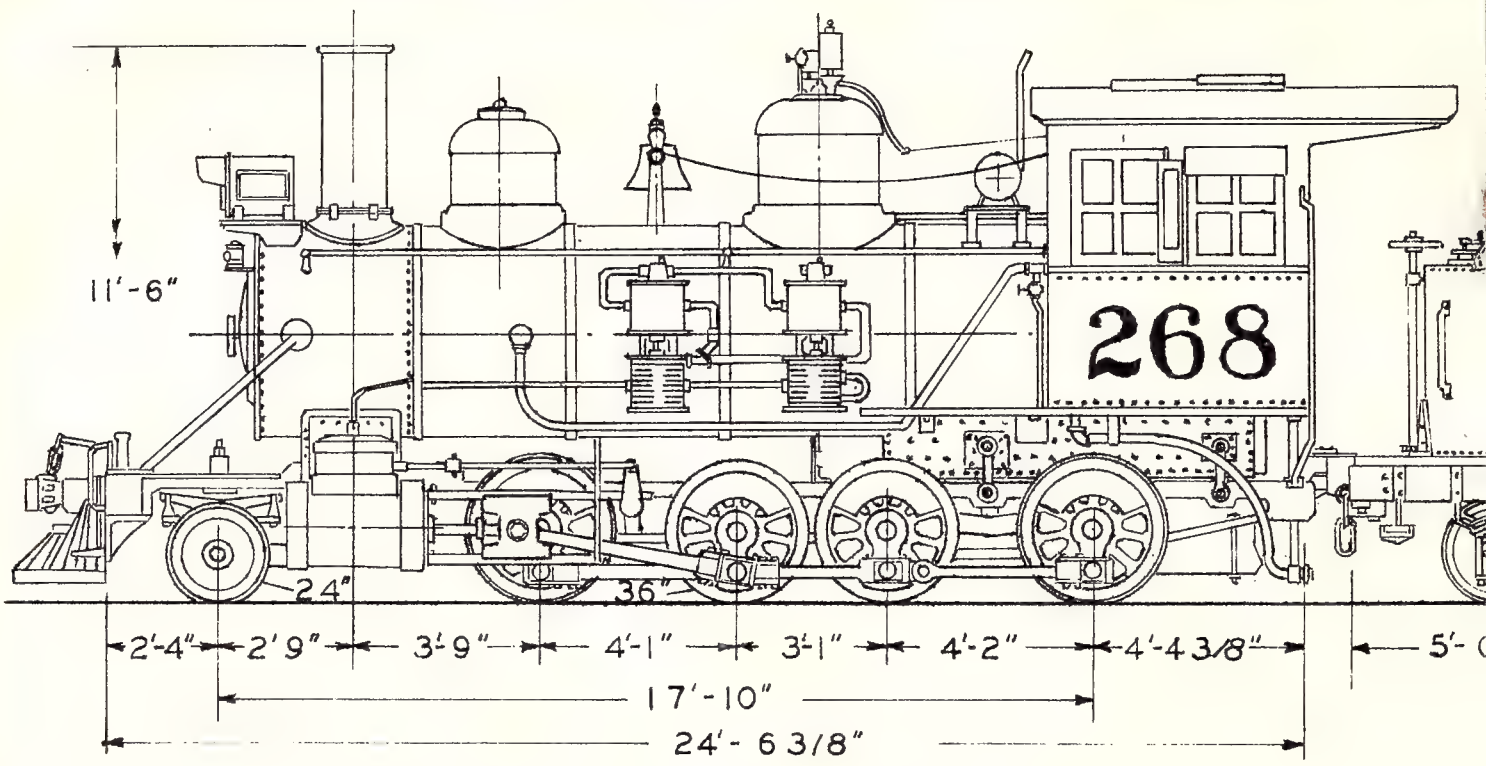
STEPS

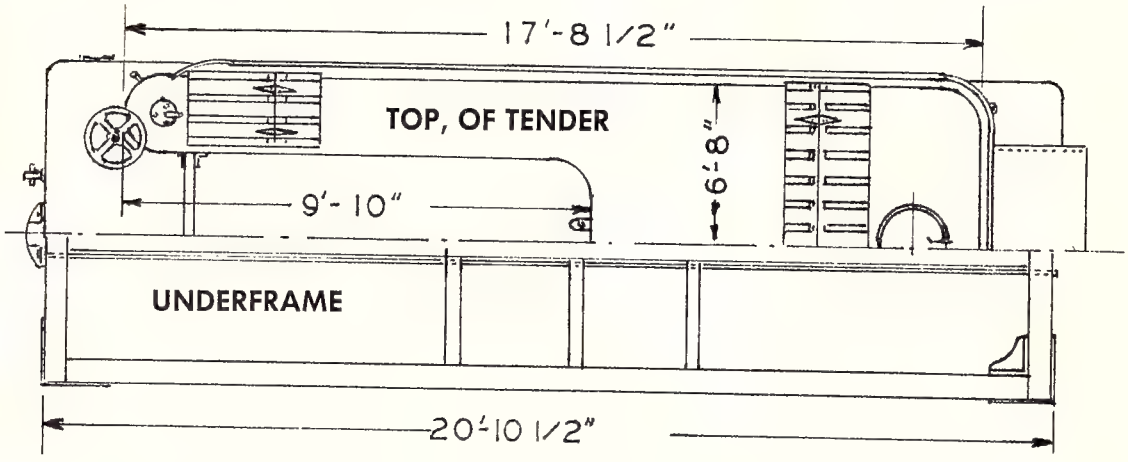


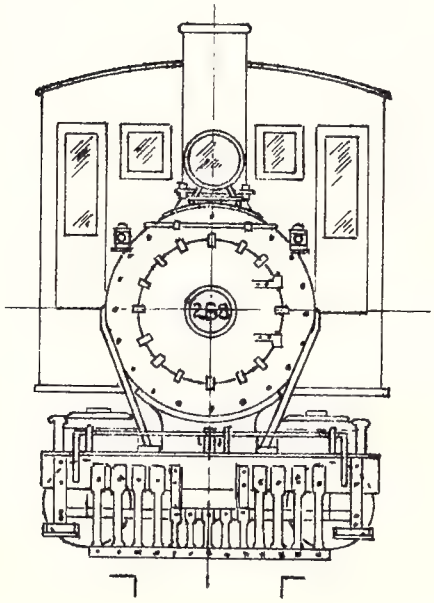
Diminutive and chunky, Eng. 268 had a long and varied career before her firebox was chilled forever. During those 70 years, she received a number of faceliftings. Plans of D&RG Class C-19 appeared in RMC for July 1953. No consolidations are left in active service today.

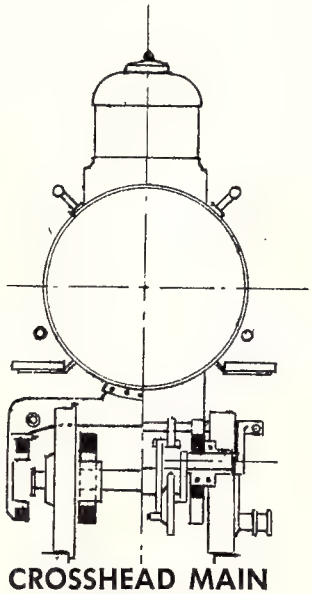
THE MONTEZUMA 2-8-0 CONSOLIDATION

Photo by Bob Richardson, Narrow Gauge Motel, Alamosa, Col.

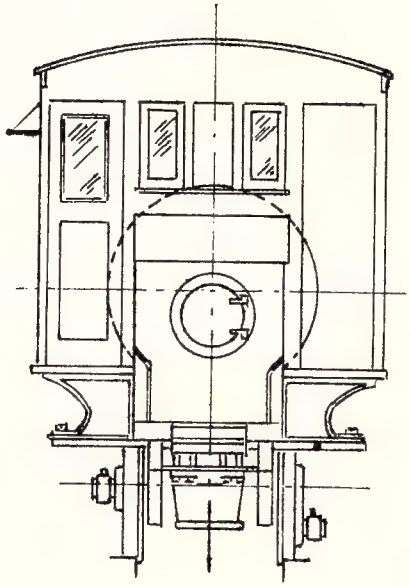




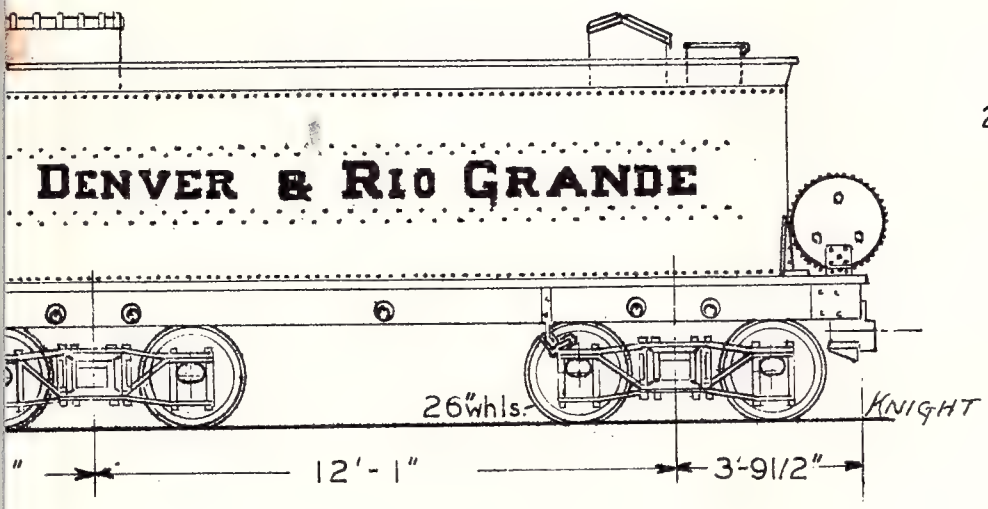


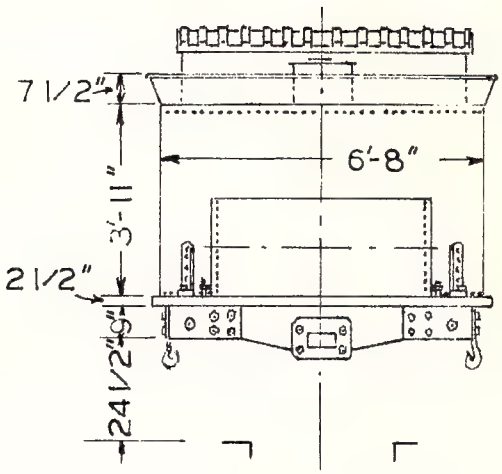


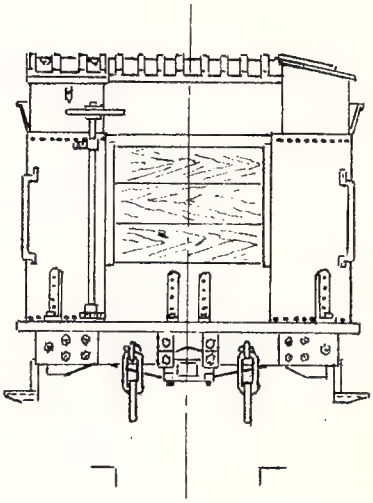
CROSSHEAD MAIN SECTIONS



LOCOMOTIVE ELEVATION
as it appeared in 1949

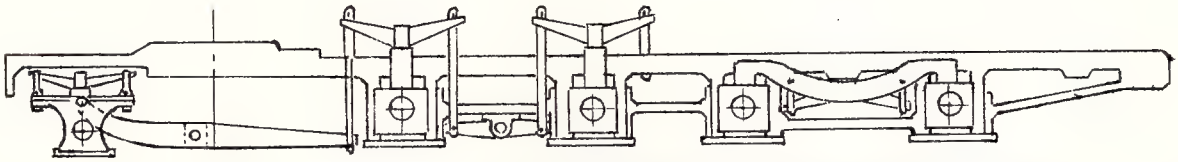




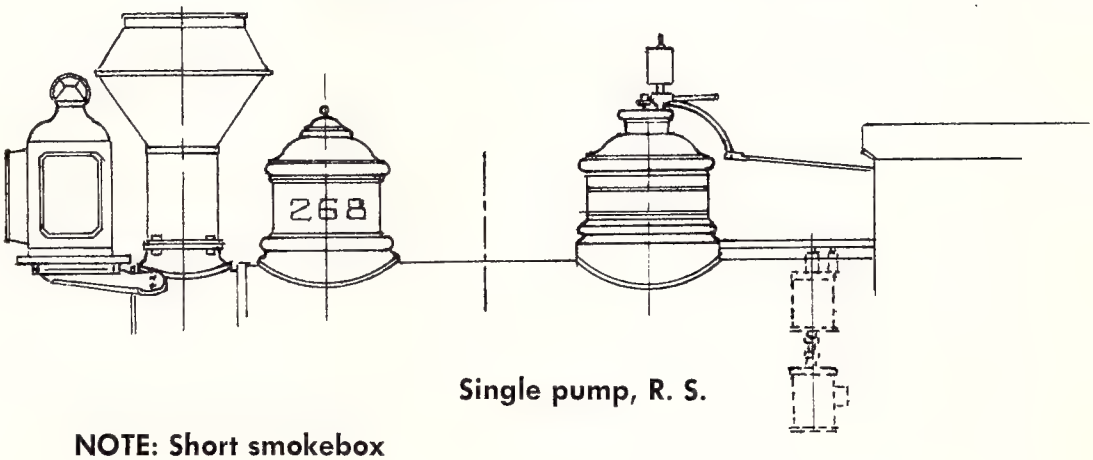


FULL SIZE On3 GAUGE

DRAWN BY J. L. KNIGHT
FOR
RAILROAD MODEL CRAFTSMAN

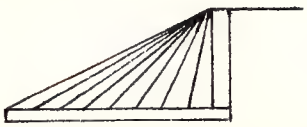


FRAME AND SPRING RIGGING DETAIL



Single pump, R. S.

NOTE: Short smokebox



OUTLINE OF LOCOMOTIVE
as built in 1881

TROLLEY FUN

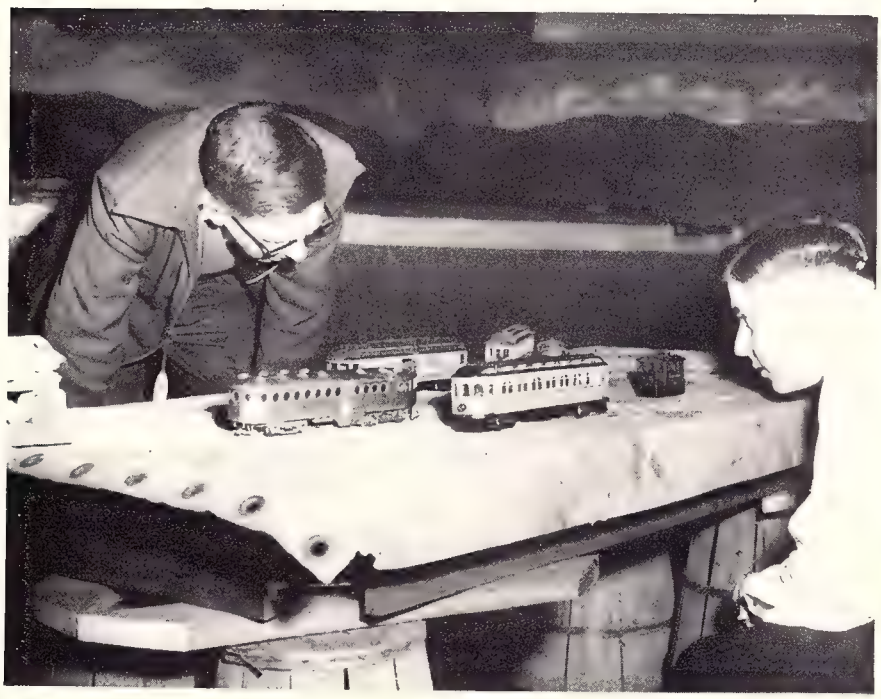
Staff Photos

1—How well do you know your trolleys? Here are some of the 50 operating models brought by 40 active O gauge traction men from 5 states to the United Electric Traction Line operated by the Central Jersey Model Railroad Association.

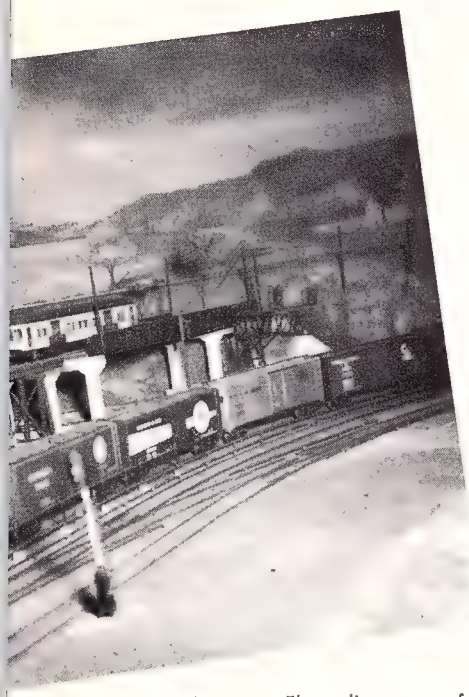
2—Juicejack on the railroad mainline slithers by with heavy freight while big interurban is on trestle in rear. No one was admitted to the open house unless he brought O gauge trolley.

4—So many cars were on display that second table had to be put into use as "yard." Large fleet of cars from the Philadelphia Model RR Club introduced every possible type of conversion to Pittman cars. All used overhead wire.

5—Westfield Terminal saw plenty of action. Some of the O gauge lines represented included Venango Traction, Delaware Valley Electric, Brooklyn Model Transit, South Coast Elec., Greene Valley Elec., Hudson River Elec., East Hempstead Traction, Upton & Grafton Elec., Brandywine Traction, and Piedmont Traction.

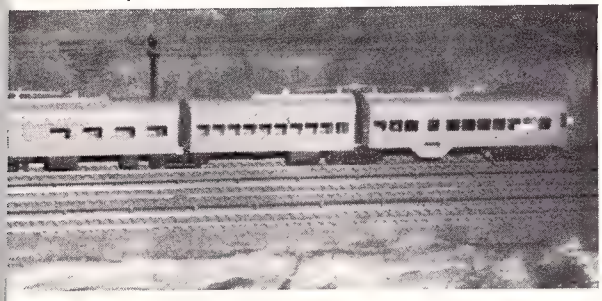


3—All eleven boards controlling the trolley and railroad trackage were turned over to the visitors. No damage resulted to either trains or equipment as result of this unprecedented action by host club. All present were modelers.

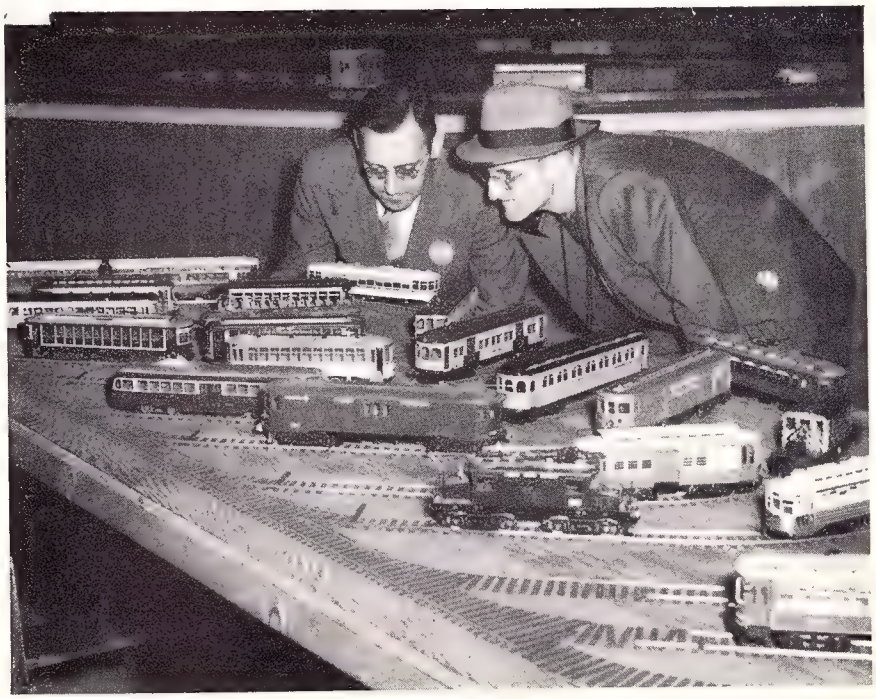


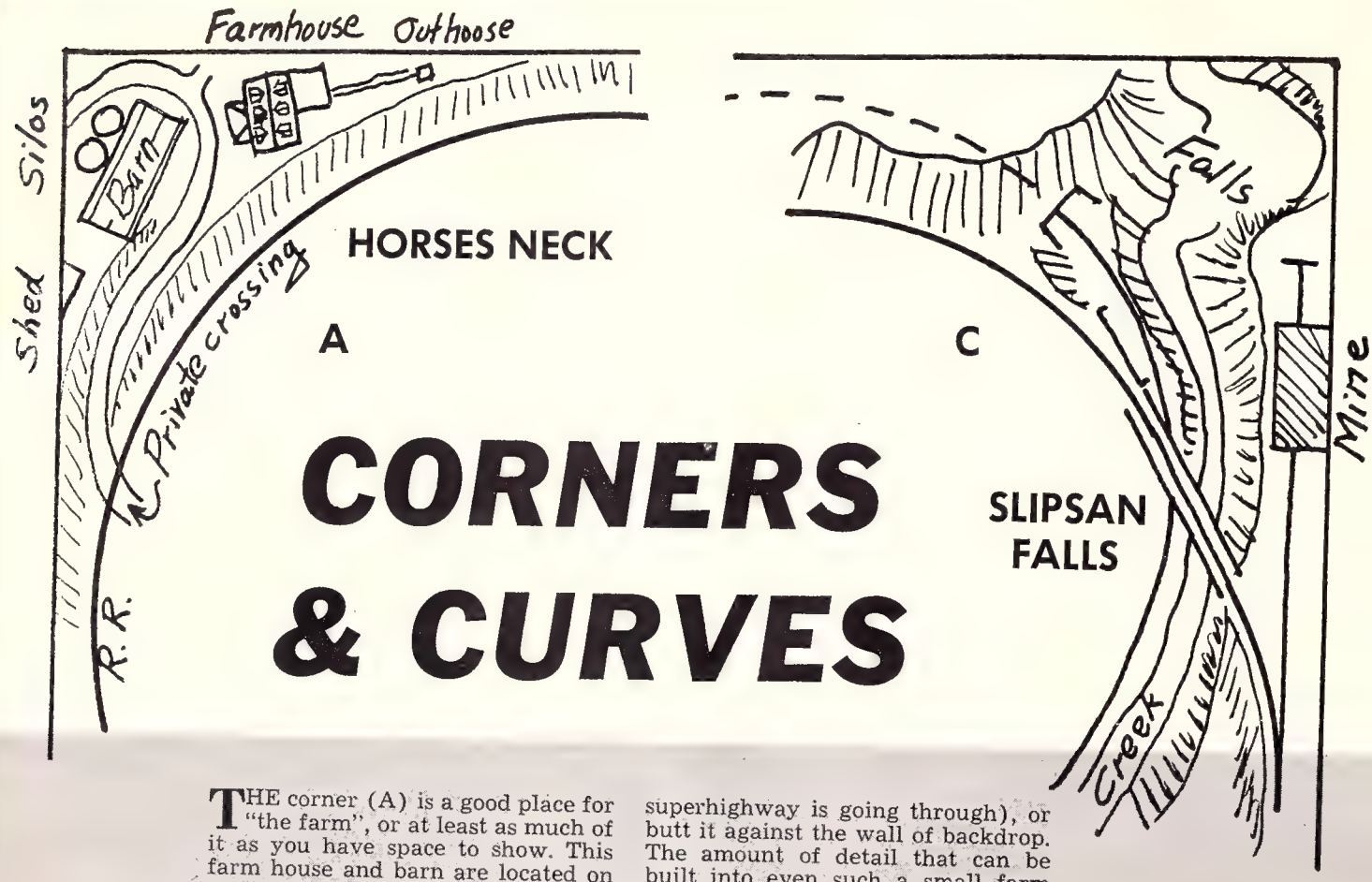
7—Electroliner slips easily around wide curve while old Hudson River No. 12 clunks noisily across trestle. No steamers were operated.

6—Smooth running Electroliner seems far away from home; was built and owned by New Jerseyite.



8—Another view of cars to drool over including Baltimore Transit, VT, Brooklyn, and a good asortment of freelance and Pennsylvania lines. All present had fun; hope soon to have similiar shindig in Baltimore, Philadelphia. All agreed that the meet brought back to model railroading something that is all too often missing these days: good fellowship.

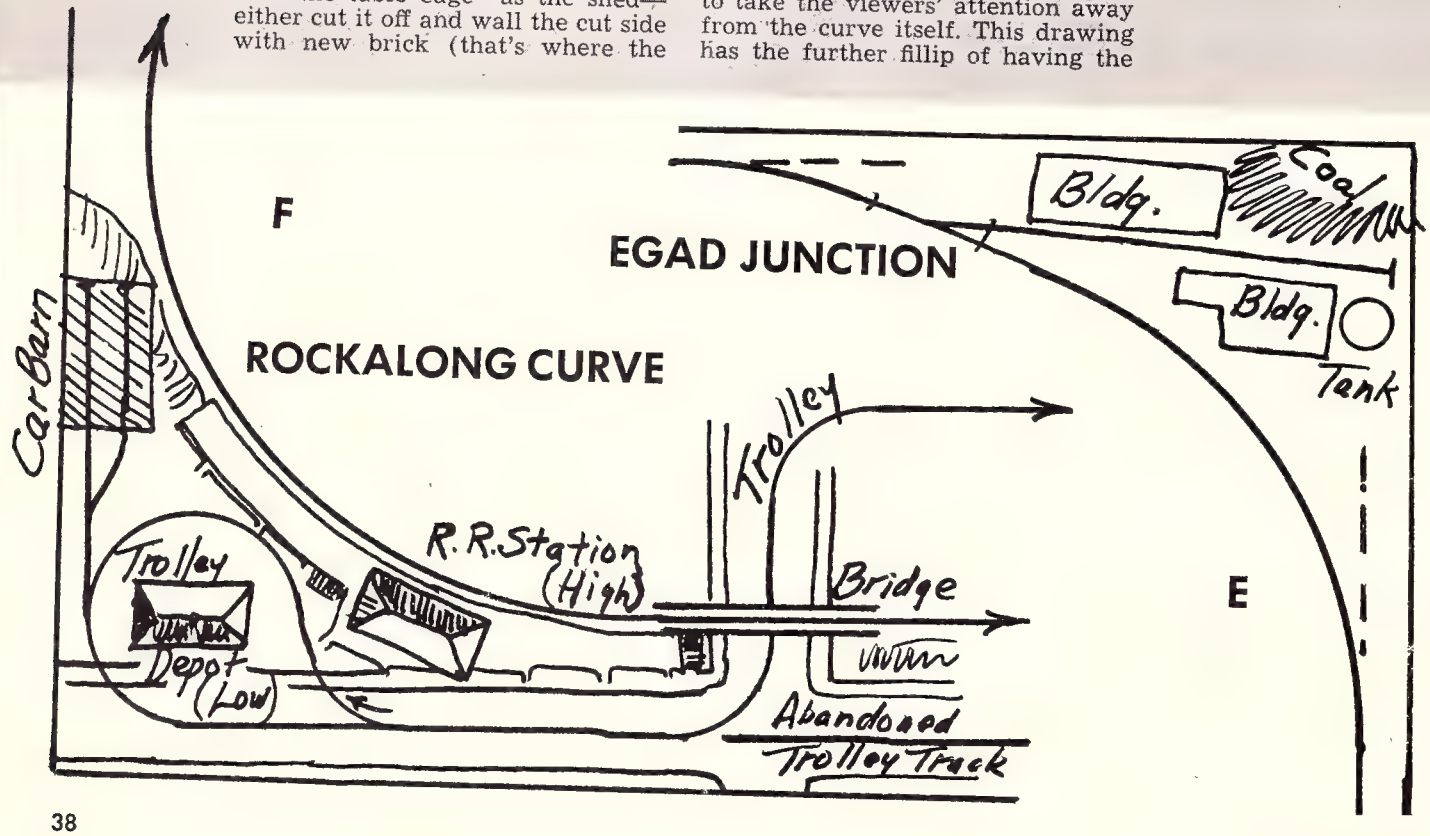


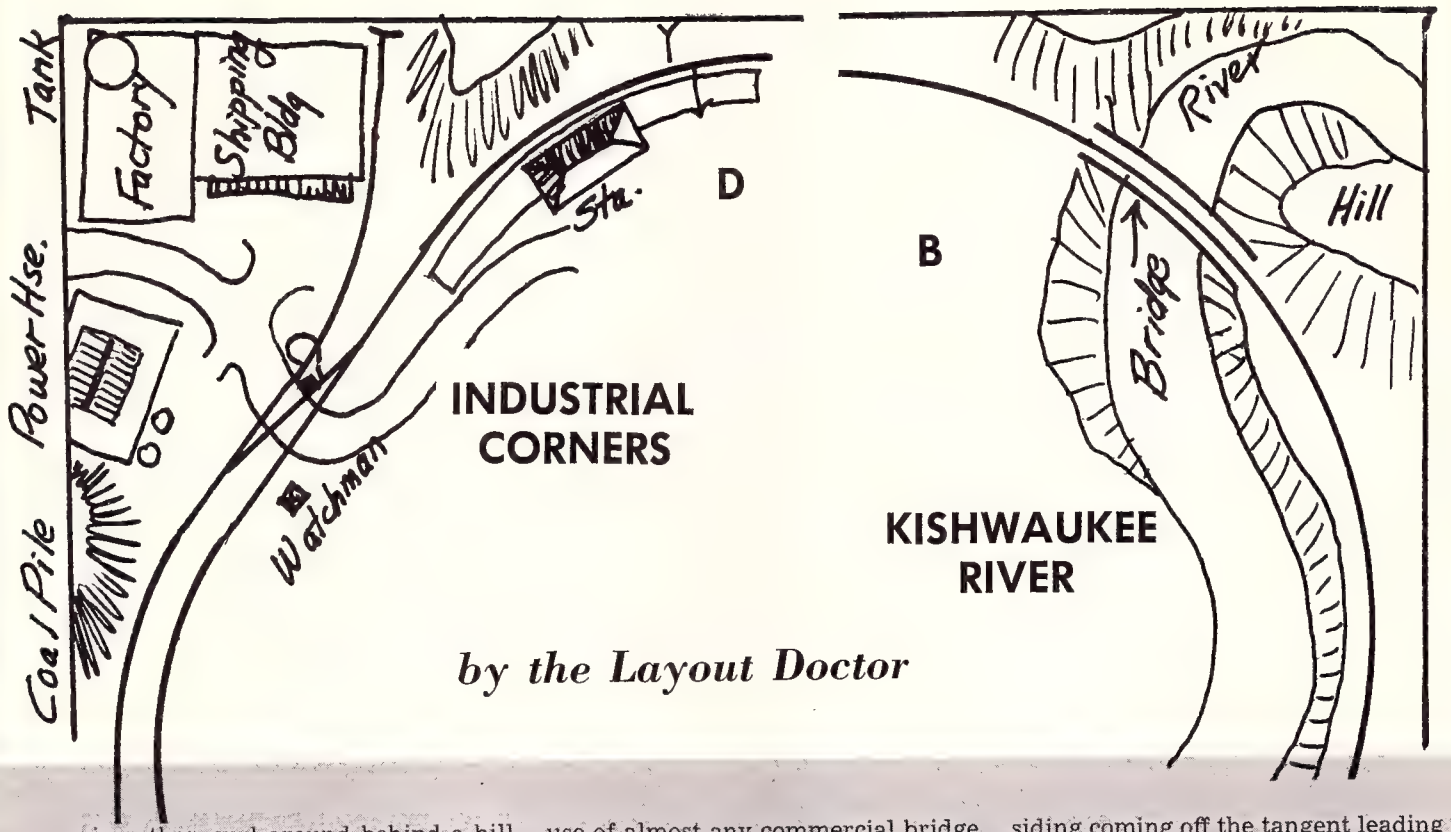


CORNERS & CURVES

THE corner (A) is a good place for "the farm", or at least as much of it as you have space to show. This farm house and barn are located on a slight elevation above the track, reached by a private road crossing which jounces up the hill and runs between house and barn. Avoid the usual tendency to place farm buildings at right angles to table-edges, although they are often at right angles to each other in real life. If one of the buildings would extend over the table edge—as the shed—either cut it off and wall the cut side with new brick (that's where the superhighway is going through), or butt it against the wall of backdrop. The amount of detail that can be built into even such a small farm scene is amazing, really limited only by your own patience. If possible, try to have the approaches to the curve *not* parallel to the sides of the table, if space permits. This is illustrated by the right approach to this curve.

(B) A river disappearing under a railroad bridge makes a good device to take the viewers' attention away from the curve itself. This drawing has the further fillip of having the





by the Layout Doctor

river then curl around behind a hill out of sight so that it does not have to be continued on some scenic backdrop if you ever do paint one. A curved bridge such as shown here could be made from about three deck girder spans, but might be more spectacular as a stone or brick arch bridge or a timber trestle.

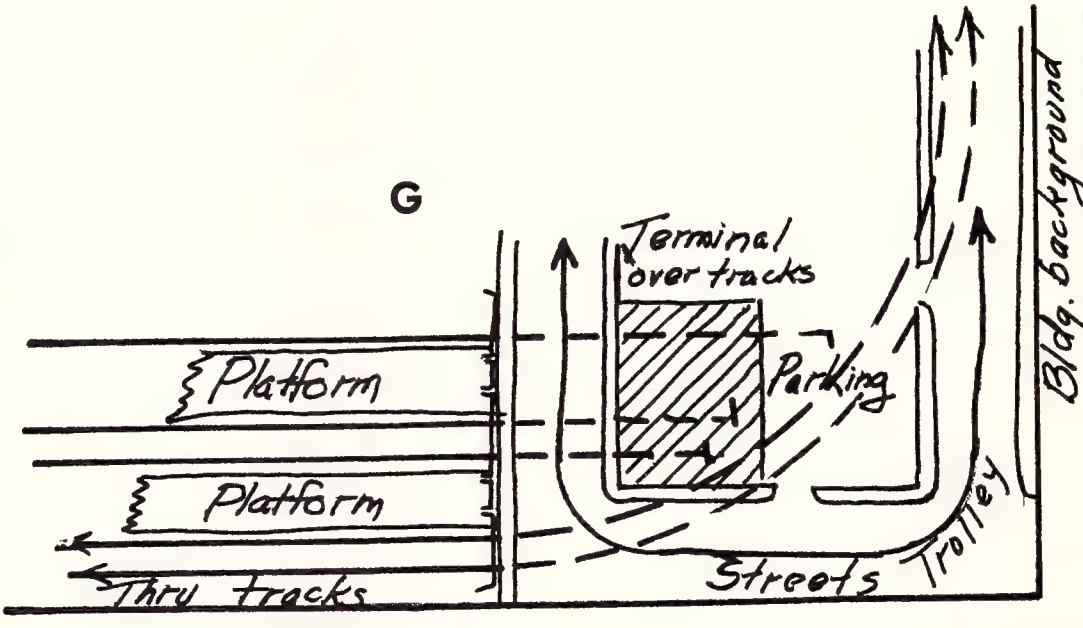
(C) A falls is another way of attracting attention to the scenery not the curve. However the main point in this drawing is that a short straight stretch has been introduced into the curve so that a straight bridge could be used. This will permit the use of almost any commercial bridge of suitable length. If possible, it is nice to have 'another railroad" or another lobe of the same inside-out figure-eight run under the bridge, with a stream of some sort more or less parallel to it. Rivers are a good device to justify model railroad curves.

(D) Interest is lent to this factory site inside a curve by the double siding which will increase the switching operation necessary to spot cars.

(E) A single siding coming off a straight stretch in a curve is preferable, if space permits, to a similar siding coming off the tangent leading to the curve, as shown dashed. Always try to have each siding serve two or more industries or at least be able to bring in two or more types of cars—here coal and box cars.

(F) A curve makes a good place to locate a tight little trolley reversing loop and perhaps a car barn. The high level railroad station could have stairways leading to the street and trolley depot at the low level.

(G) Always a good way to disguise a curve is to cover it up. We have shown in previous issues how this can be done.



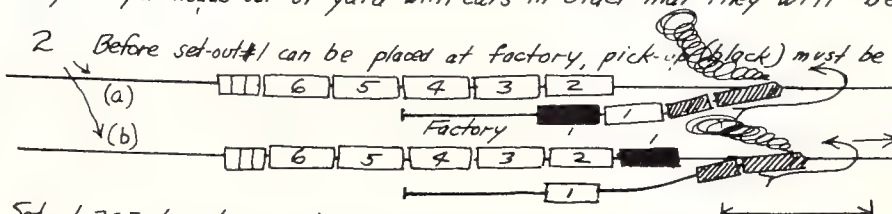
RAILROAD OPERATION

#2-A

THE WAY FREIGHT

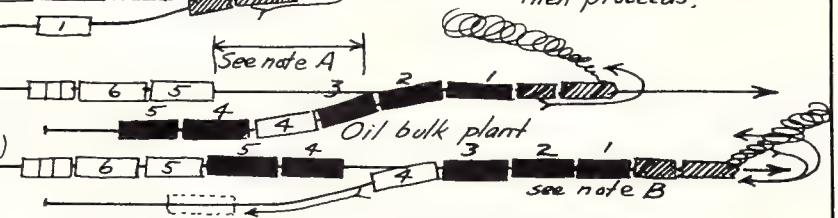
Way freight heads out of yard with cars in order that they will be set out at sidings along line.

2 Before set-out #1 can be placed at factory, pick-up (black) must be taken out as indicated. Then #1 can be set out at same location. Train then proceeds.



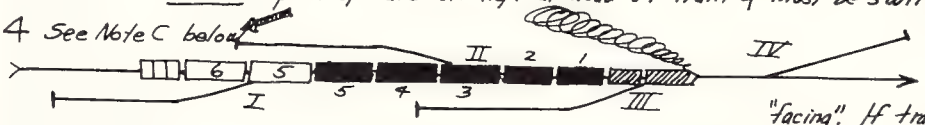
Set-outs 2 & 3 have been made & pick-ups 2 & 3 made at same sidings. At oil bulk plant, now, two pick-ups must be made, only one set-out. Steps are same as in (2)

3



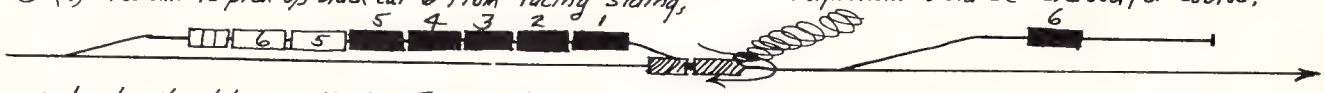
Note A: besure space is left for pick-ups to be clear of switch when move (b) is made, since cars 5, 6, & caboose are supposed to be tied down with hand brake. Note B: pick-ups are all kept at head of train & must be switched with set-outs.

4 See Note C below

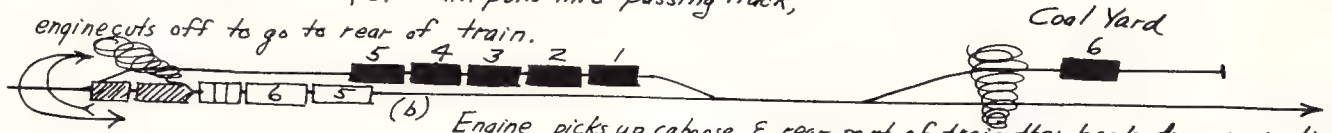


Sidings I, II, III are "trailing" for this train, siding IV is "facing". If train were running other way, these designations would be reversed, of course.

5 (a) Problem: to pick-up black car 6 from facing siding,

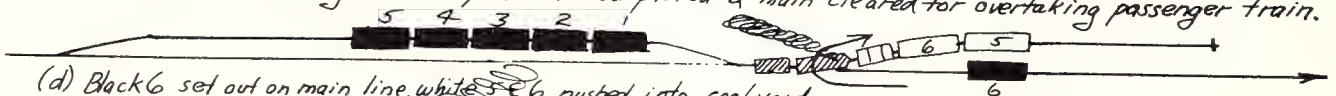


and set out white cars 5 & 6. Train pulls into passing track, engine cuts off to go to rear of train.

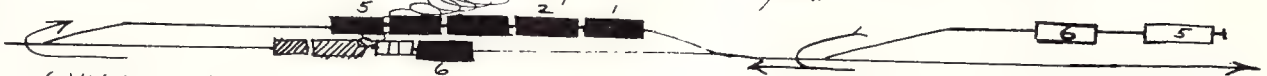


(b) Engine picks up caboose & rear part of train, then heads down main line.

(c) Sometimes a switching move may be half-completed & main cleared for overtaking passenger train.

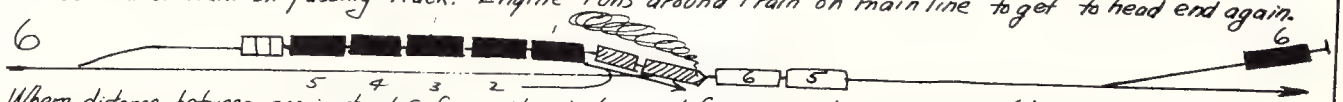


(d) Black 6 set out on main line, white 5 & 6 pushed into coal yard.



(e) White 5 & 6 spotted, engine & caboose pick up black 6 & back down the main to couple caboose & car to rear of train on passing track. Engine runs around train on main line to get to head end again.

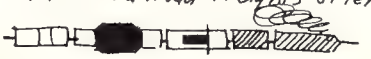
6



Where distance between passing track & facing siding is too great for running back & forth. 5(b) may be followed by switching caboose to rear of train, then pushing white 5 & 6 ahead of engine to siding. After setting these out, black 6 may be pushed ahead of engine to next passing track where it may be switched to rear.

Note C: Where switching entire cut of pick-ups is too much for loco, they may be switched to rear of train at any intermediate trailing siding with enough capacity.

Note D: Cars of explosives, oil, etc. must be separated from engine & caboose by at least one car. Model railroad freights often keep light cars such as flats well to the rear.



7 Interesting special: engine, clearance car, oversized load on flat car, caboose.

S

BACK ISSUES

COMPLETE YOUR LIBRARY OF MINIATURE RAILROADING KNOW-HOW

RAILROAD MODEL CRAFTSMAN

1948 — $3.50

FEBRUARY
Inspection engine (O) "Star"—Crater
Planning model RRs with 3D
Memoirs By Schopp—Part 3
Reading 4-2-2, BLW 1892 (O)
Transfer Table (1/8")
Soldering made Easy—Austin

MARCH
Trolley street sprinkler (O)
CNJ Inspection engine—Part 2
Bill Schopp's Memoirs—Part 4
Gas Electric (HO)—Carstens
NYNH&H 0360 electric loco (S)
NYNH&H caboose (S)

APRIL
GE 0-4-4-0 Elec. Loco (O)—Austin
Long Island Model Railroad (O)
Getting Started, John Barkeley
Fuel Dealer's Yard—Crater
Bunk Car, CNR (O)
Wayside Station (O)—Schopp

MAY
GE 0-4-4-0—Part 2
B & O O gauge layout
Using the watchmaker's lathe
BLW 2000 hp double end diesel (O)
The tools needed for model ring
Vertical twin cylinder steam engine

JUNE
GE 0-4-4-0—Part 3
BLW (CN) 2000 hp diesel—Part 2
Third Rail Shoes (O)—Long Valley
Arched roof mu cars(HO)—Carstens
DC 12 and 24 volt power supply
Basic layout designs and framework

JULY
GE 0-4-4-0—Part 4 (O)
Automatic wyes for street Rys.
Basic electrical principles
New York Ontario & Western Ry.
Streamlined cars (O)—Crater
O gauge pile driver

AUGUST
SP 0-6-0 (HO)—Austin—Part 1
Ice trolley and line car (O)
Streamlined diner and coaches (O)
S basic trolley poles (O)—LVERY
CNJ 2000 hp BLW diesel (S)
CPR 3 door baggage car (HO)

SEPTEMBER
SP 0-6-0 (HO)—Part 2
Trolley pole bases (part 2)
Train of Tomorrow loco.—HO
Whitcomb diesel in HO—freelanced
Observation car (OO)—Treat
CV snow flanger (HO)

OCTOBER
SP 0-6-0 (HO)—Part 3
Bellows Falls, Vermont (Protostory)
Train of Tomorrow—cars (HO)
Express cars (O)—Crater
G&D 2 stall engine house—John Allen
Correct freelancing—Bill Hoffman

NOVEMBER
G&D Engine house (HO)—Part 2
SP 0-6-0 (HO)—Part 4
Train of Tomorrow—conclusion
Turntable for HO—Bill Schopp
Electric Trolley Locomotive (O)
TT water tower—Healion

DECEMBER
4 comp. Pullman Observation (O)
Elec. Loco. (O) Part 2
NYS&W Little Ferry Terminal
G&D Engine House—Part 3
BLW 3000 hp diesel for SAL (HO)
Gas electric (HO)—Ray Staples

1949 — $3.50

CNJ Highbridge Branch
Trolley Loco: Part 3
Pullman Observation: Part 2
4-4-4 Live steamer (1/2")—Part 1
Quartering drivers an easy way
HO Steam motor car—Schopp

FEBRUARY
Building a 4-4-0—Dance (HO)
B&O 2-10-2 Sta (O)
CNJ Highbridge Branch—Part 2
4-4-4 Live steamer—Part 2
Trolley bus control circuits
Getting started: Barkeley

MARCH
Interurban Official car (O)
O reefer by Lewis Austin
4-4-0 in HO—Part 2
N&W Class J-2 4-8-4—Part 1 (O)
4-4-4 live steamer—Part 3
Scenery, It's Easy—Crosby

APRIL
EMC Passenger Diesel in HO
Getting started—Part 6
Bay Ridge Model RR Club (O)
Official car—Part 2—Hoffman
CNR 4-8-4—Data and S plans
N&W 4-8-4—Part 2

MAY
Here comes the circus
Fully automatic turntable (HO)
Canada Great Western Ry (O)
Official Car—Part 3
N&W 4-8-4—Part 3
4-4-4 Live steamer—Part 4

JUNE
Model RR That Folds Up
Alco 1000 hp switcher (HO)
Mt. Tamalpais & Muir Woods RR
Quartering device for drivers
Pickle car (O)—Bartholomew
Two power wiring circuits

JULY
RR That Folds Up—Part 2
Helium Tank Car—Bartholomew (O)
PRR G5s 4-6-0—HO Plans and data
Remote control pantographs
4-4-4 Live Steamer—Part 7
Weathering model equipment

AUGUST
California models and prototypes
Modern home modeled in plastic (O)
ATSF 4-6-2—Plans and data (HO)
Live steam review
SP Box car; PFE Reefer (HO)
4-4-4 Live steamer—Part 8

SEPTEMBER
Modeling from Photographs
Modern home in plastic—Part 2
Express reefer (O)—Austin
Small frt. house (NYCRR)—HO
CNJ 0-6-0 camelback (O)—Crater
Disappearing apartment railroad

OCTOBER
B&M gondola in O gauge—Austin
Control of model trolley lines
Oakland Antioch & Eastern Ry (Ot)
BLW 1500 hp diesel road switcher (S)
Interlocking towers
Live steamer information

NOVEMBER
Electronic control: J. Nixon
Stanton Central RR—British OO
Gingerbread to age your buildings
Cement Hopper (O)—Bartholomew
Wooden combine in HO—West Shore
Flag stop stations in Indiana

DECEMBER
1892 Union Line box car (HO)
United Electric Railroads (Ot)
4-4-0 camelback—CNJ (O)—Crater
Open end gondola (HO)
Camouflaged operating space
Trains and the Christmas Tree

1950 — $3.50

JANUARY
Citrus Empire RR (O)
Corner engine terminal.
Hints on trolley wire
South Dakota Central RR (HO)
C&NW 4-4-0 No. 195—HO Plans
MoPac Gondola (O)

FEBRUARY
Protostory: Bronx Frt. Terml.
Bumping posts (O)
Scenic Landscaping: Dance
Using electronic control
TARS semi-conv. ST No. 1701
American Flyer Wide Gauge

MARCH
Chicago Museum Model RR (O)
RMC Layout No. 1: Design
Forming city backgrounds
NKP Also and BLW diesels (HO)
Painting the scenery: Dance
SOU & EREX Hopper car plans (S)

APRIL
Cleveland RR Club O gauge layout
Modeling Culverts: Dance
Trolley Express Car: Long Valley (O)
RMC Layout No. 1—trackwork
GN EMD pass. diesel (S)
Virginia & Truckee 4-6-0 No. 26 (HO)

MAY
The Panama RR (protostory)
CNJ No. 1000—the first diesel
Modeling Culverts: Dance
50 ton dump car (S Plans)
Trolley Express car—Part 2
DL&W 4-4-0 No. 988 (S plans)

JUNE
Outdoor RRing: Long Valley O line
LATL Rail grinder (S)
Tender truck boosters (HO)—Austin
V&T combine and baggage cars (HO)
CofG 2-8-0 No. 200-214 (O Plans)
CNJ first diesel—Part 2

JULY
USRA light 4-6-2 (HO)—Part 1
CNJ Newark Terminal: Crater
EG atlantic in HE (1 16) Gauge
Economy motor truck: Long Valley
Foldaway Model Railroad
MKT Caboose (HO)—Austin

AUGUST
CNJ 4-8-0 camelback (O)
Modeling waterways: Dance
Grand Valley RR (HO)
C of G 0-6-0 tank engine (S)
USRA 4-6-2—Part 2
C&O detailed caboose (O—Part 1)

SEPTEMBER
Truss bridge: Dance
Building grades: Schopp
NJCGRR tanks car (HOn3)
C&O Caboose—Part 2
USRA 4-6-2—Part 3
CNJ early automatic signal (O)

OCTOBER
Venango Northern RR—Livingston (HO)
CNS&M B-B-B-B—Soverel
Rdg 2-10-2 (O)—Crater
USRA 4-6-2—Part 4
Coaling station—Dance
C&O Caboose—Part 3

NOVEMBER
2'x8' HO railroading
Grusome's Grain Mill (HO) Brunger
Rdg 2-10-2—Part 2
Designing a layout
USRA 4-6-2—Part 5
3 MU cars from 2 Pullmans (O)

DECEMBER
Showcase for your models
Brill rail bus in HO
Use black light on your railroad
The Channel Line (O) at Christmas
Old time wood gondola (HO)
V&T snow flanger. O plans.

1951 — $3.50

JANUARY
The CNJ at Plainfield
Stub Terminals
HO Paycar by L. Austin
Automatic trolley Turnaround
Mason Vixon Lines (O)
Brill Rail Bus

FEBRUARY
8-Ball Loco. Works, by Brunger
Erie 135 ton flat car
I & G RR (HO), Bill Miller's
NYCRR Fire Fighting Car (O)
Hertz—The future of O gauge
Double Gauge Turnout

MARCH
SP Gerber engine house (O)
Frt. traffic at a cement plant
CNJ 0-8-0 camelback (O): Crater
Korean and Japanese models
NYCRR caboose (HO): Deutsch
Lights and chickens: Crosby

APRIL
Mt. Washington Cog Ry
1915 gasoline loco. (HO)
NYCRR Caboose (HO): Part 2
Abbottsville & Western RR (S)
Gay Nineties Stations
Foldaway layouts

MAY
RMC Layout No. 2
Poultry car (HO): Miller
NYCRR Caboose: Part 3
Trestle bridge
J W Bowker in HO
Retaining Walls

JUNE
Semi-well pocket flat car (HO)
Vinegar Valley Lines (HO)
Freight Station: Brunger
Model Carrying Case
J W Bowker (Part 2)
NC&StL K-2 Pacific (O)

JULY
Auto coupler (HO): Prudhomme
Kenn Valley Lines (HO)
Little Louis 0-4-0 (HO): Schopp
Planning a model rr: Martin
Double slip switch in HO
4-4-0 from C P Huntington (O)

AUGUST
100 years on th Erie RR
Covered Cement hopper (HO)
Automatic coupling ramps (HO)
Cellar railroading: J. Kemp
Planning a model rr: Part 2
Double slip switch: (Part 2)

SEPTEMBER
2 pint size pikes in HO
Visible frt. car loads
Ute Short Line: Earl Cochran
The Electra Switch Machine
Pickle Car—HO—Miller
Diesel servicing

NOVEMBER
Hump Yard Design
Locomotive headlights
Converting the Mantua "Belle"
Converting the Varney "Little Joe"
Slope back tender—HO—Miller
V&T Flat car plans (O)

DECEMBER
St. Louis TRRA: Carstens
Clearance Car—HO—Schopp
Baldwin road switcher—HO
Simple Wiring—Houghton
Frost on th layout—Crosby
Model Hump Yard

MAIL TODAY

The above listings briefly describe some of the featured material in each issue. In addition, there is a wide range of constructive data, plans and building articles in every copy. All magazines are complete and contain fresh projects and building ideas that can be put to use on your present pike. Here's your chance to fill the gaps in your own model railroad library But rush! Supplies on many issues are low and cannot be replaced. Orders will be filled on a first come, first served basis! Use the coupon today.

RAILROAD MODEL CRAFTSMAN
Dept. BH
Ramsey, New Jersey

RAILROAD MODEL CRAFTSMAN

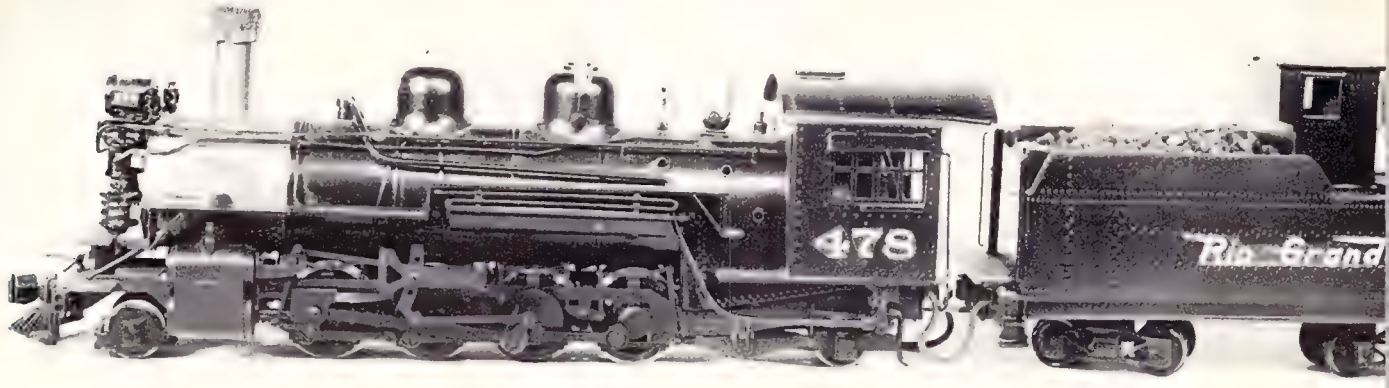
Please rush the complete sets of back issues as checked below. Each set is priced at $3.50 post paid. I enclose a check or money order for $ ..... :

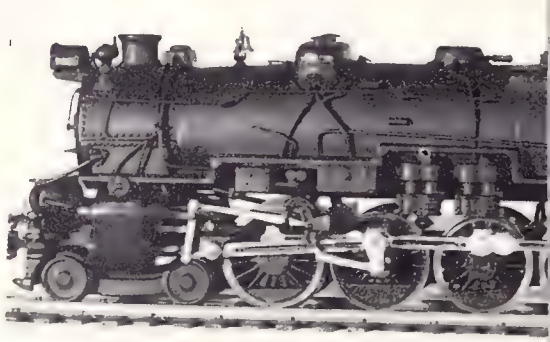
Described Above	Current Years	The Model Craftsman 9 years and older	
☐ 1948—11 issues	☐ 1952—12 issues	☐ 1942—11 issues	☐ 1945— 7 issues
☐ 1949—12 issues	☐ 1953—12 issues	☐ 1943— 7 issues	☐ 1946 9 issues
☐ 1950—12 issues	☐ 1954—12 issues	☐ 1944—12 issues	☐ 1947—12 issues
☐ 1951—11 issues	☐ 1955—12 issues		

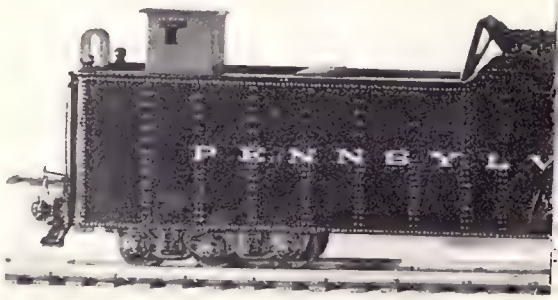
NAME .....

STREET .....

CITY ..... ZONE ..... STATE .....







UPPER LEFT: Picture this On3 Mudhen battling a miniature Cumbres pass with a string of open end varnish, and we'd really be doing some model railroading! This Pacific Fast Mail hog is owned by Dr. J. E. Andes, of Needles, California. Note the outside frames.

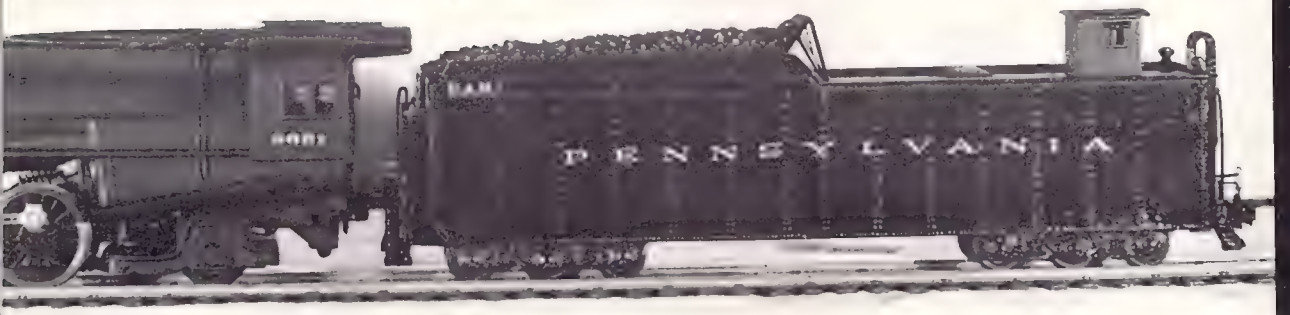
UPPER RIGHT: We'd call this having our cake and eating it, too. The Lackawanna 4-8-4 operates every May through October on the Henry Becker Dairy Farm, Roseland, N. J. Engine has automatic air brakes and as much detail as the prototype. Who knows, maybe more!

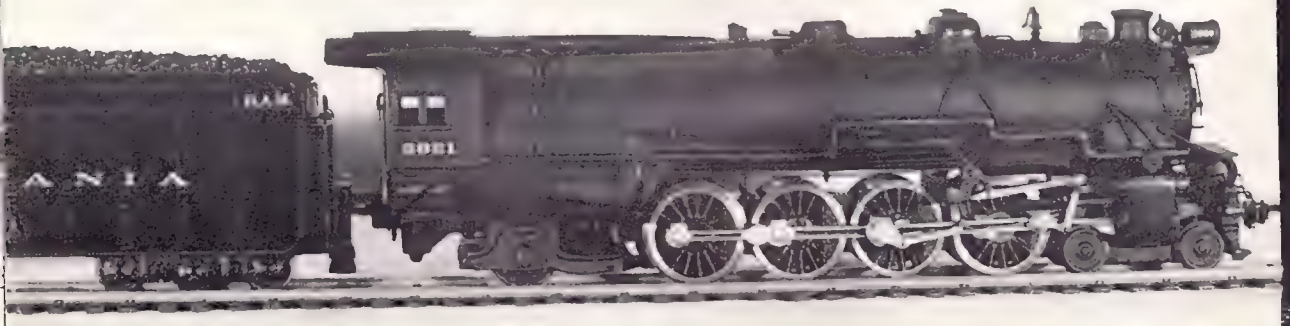
ABOVE, CENTER: Ex-Boston & Albany 4-6-6T rolls along with rear end first, hauling a mail-commuter train Hoboken bound, on the HO Hudson, Delaware & Ohio RR, of the Summit-New Providence HO Club. Any other modelers who use tank engines in rgular passenger runs?

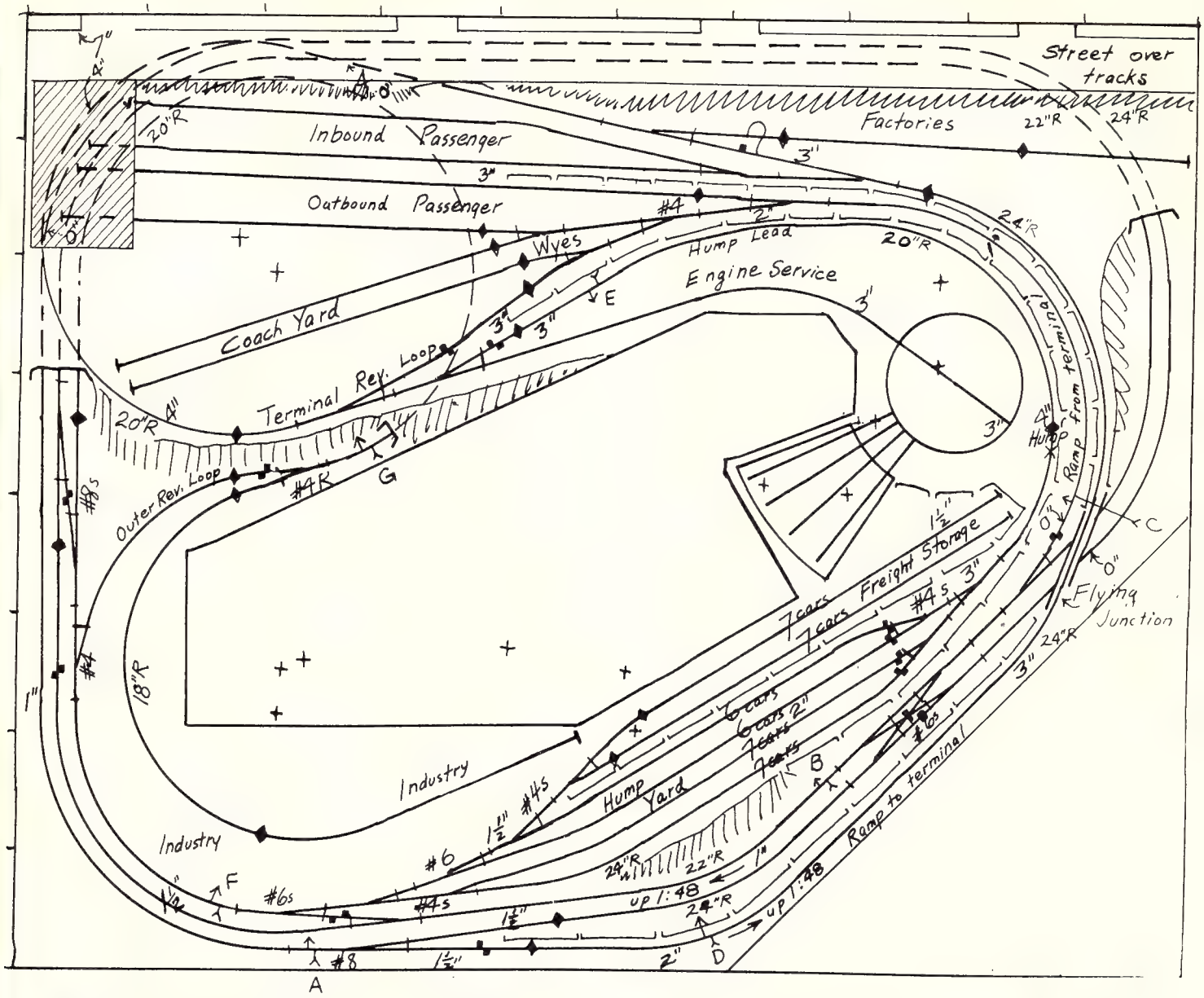
LOWER RIGHT: If you like your locomotives big, look at this. Clean and beautifully detailed, this Pennsylvania Railroad class M-1a in O gauge was outshopped by the Leonard Blum Hobby House Works on a custom order. Large loco models often have blind center drivers.

LET OTHERS SEE YOUR MODEL RAILROAD: Each month this magazine prints the photos deemed by the editors to have the most interest to its readers. Layouts, quality work, the unusual; all are of interest. Photos should be sharp, of good quality, and preferably at least size 4x5. Send to Nabor's Pike, Railroad Model Craftsman, Ramsey, N. J.

YOUR NABORS PIKE







READY-TRACK CENTRAL

FOR NON-SECTIONAL TRACK

by the Layout Doctor

I HAVE also drawn up the basic idea of the same eight by ten foot Ready-Track layout presented in the March 1956 issue for use with non-sectional track—regular Tru-Scale roadbed and switches spiked down by you or Atlas flexible track and matching switches with or without plain wooden roadbed. It consists of the same double track main line and generally the same sort of terminal area except that it is at a higher level than the rest of the track, connecting with the main line via a "flying junction" instead of a double-track turnout. The higher level introduces grades which lend interest to the pike in addition to making its construction a little more complicated. There is also the outer reverse loop, relocated *under* the terminal loop, to head trains back into the terminal.

The main line is at the basic O" level around the top and right sides of the same space, but the track (or the whole platform for that matter) slopes up to an altitude of 1½" at lower left so as to permit easier grades at the flying junction.

Inbound passenger trains to the terminal would leave the main line via the flying junction, first perhaps having been reversed at the outer reverse loop. Such a train would pull into one of the two inbound passenger tracks of the terminal. Then the road engine would back it out and leave the train past the ramp (diamond shape on drawing) at throat of terminal. Engine would then proceed around terminal reverse loop to turntable. A switcher which had been lurking at any of the three switches on this route then comes out, couples to *head* of train, takes it around the terminal loop and as far down the "ramp from terminal" as necessary to back the coaches into the coach yard. Of course the road engine could do this too if you were short of motive power. Coaches could also be backed right into the outbound track, ready for another trip over the railroad.

No matter which way a freight is going around the double track main

line, it enters the terminal area via the flying junction again, as with the passenger train, rounding the outer reverse loop if necesasry to get headed aright. The freight train rounds the terminal reverse loop counter-clockwise and halts while on it. The road engine is uncoupled at the ramp to the left of the word "terminal" and heads for the roundhouse (they can't corner us there!). A switcher comes from the factory siding and shoves the train over the hump lead. At the crest of the hump, cars are uncoupled one by one and coast down into one of the four tracks of the hump yard. (Grades here are experimental—see my articles on hump in Nov. and Dec. 1951 RMC). Another switcher or "trimmer engine" makes the classified cars up into trains or puts empties in the two storage tracks for a while. Cabooses may be put over the hump if the hump engine crew is not on good terms with the train crew; otherwise, the caboose of a train will be taken carefully down the "ramp from terminal," the inner main line, and then into one of the storage tracks.

Building a layout such as this with non-sectional track involves quite a bit of work, although not quite as much expense as with sectional track. Accordingly I have broken down the construction into several stages as follows, and here enumerate the items required with you to determine whether you want roadbed or not.

STAGE I

(outer main line only—electrical section A)

1 circle 24" radius, 13' straight (total 9 yds. flex. track); 1 scissors crossover; 1 No. 8 L switch.

STAGE II

(inner main line—elec. section B)

1 circle 22" radius, 11' straight (total 8 yds. flex. track); 1 No. 8 L switch; 1 No. 6 R; 1 No. 6 L.

STAGE III

(outer reverse loop and approaches —elec. sections G and part of F)

1¼" circle 20" R, ½ circle 18" R, 3' straight (total 7 yds. flex. track); 1 No. 8 L switch; 1 No. 6 L; 2 No. 4 R.

STAGE IV

(Inbound pasenger track, all electrical section D)

¾ circle 24" R, ¾ circle 20" R, 21' straight (total 14 yds. flex. track); 4 No. 6 L switches, 1 No. 6 R switch. Turntable and roundhouse trackage not included in tabulation.

STAGE V

(outbound passenger—electrical section D)

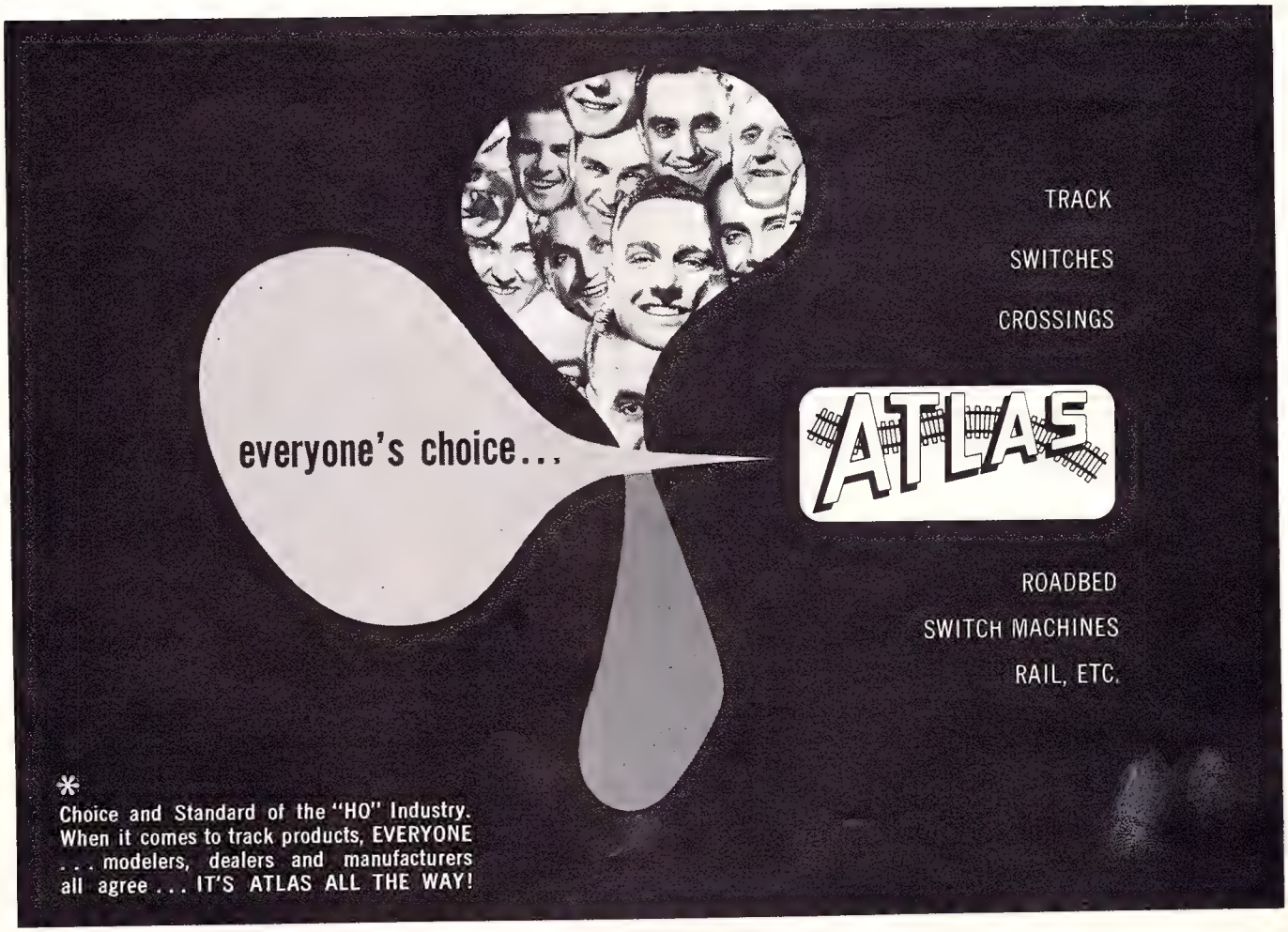
½ circle 22" radius; 16' straight (total 8 yds. flex. track); 1 No. 6 L switch; 1 No. 4 switch; 2 wye switches.

STAGE VI

(Hump yard lead, hump, hump yard, both throats of yard—electrical section E and part of F)

½ circle 20" radius, 23' straight (10 yds. flexible track); 4 No. 4 R switches, 3 No. 4 L switches, 1 No. 6 L.

The electrical set-up would be similar to the Ready-Track design with inner and outer main lines separate, inbound and outbound terminal tracks separate. In addition to these four sets of controls, there should be a fifth one, E, so that a train can be humped without interfering with other railroading, and a sixth one, F, so that a trimmer engine can also work independently at the lower end of the hump yard (to the left). This section F also will serve as an approach to the outer reverse loop which here requires yet another section with its own set of cintrols, G. One big power pack with seven "cabs" or control sets is recommended—something of about 5 amps. capacity should do the trick very well, even one of 4 amps. For one-man operation, controls could be on both sides of the central control pit, but for two-man running, possibly junction and hump yard controls should be on the open diagonal side by the doors.


everyone's choice...
TRACK
SWITCHES
CROSSINGS
ATLAS
ROADBED
SWITCH MACHINES
RAIL, ETC.
*
Choice and Standard of the "HO" Industry. When it comes to track products, EVERYONE . . . modelers, dealers and manufacturers all agree . . . IT'S ATLAS ALL THE WAY!

the bantam

ROOSTER

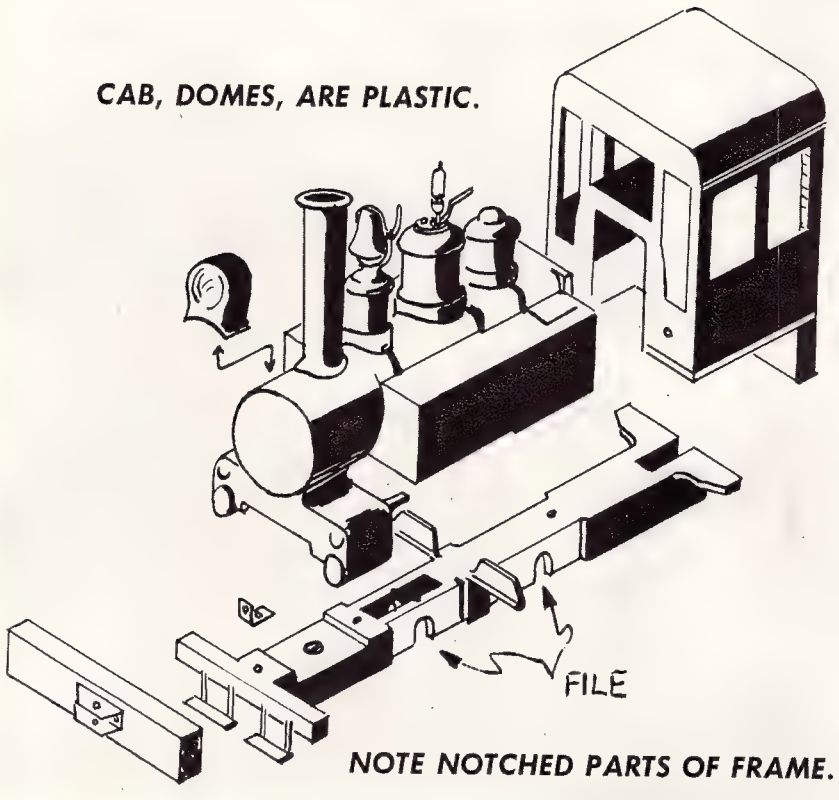
by Dick Andrews

Now anybody can build and afford quarter inch narrow gauge because the Rooster can be built for little more than a Ten Spot, and ordinary model hand tools.

ONE of the lowest priced loco kits of fine quality on the market is the Mantua "Booster" in HO—just under ten bucks. And one of the lowest priced items on any basis at all is Northwestern's plastic non-operating O scale model of a Porter 0-4-2T loco, which costs around one dollar. Here's how to put the two together to get an authentic narrow gauge 0-4-0T in O scale! It's a simple job within the scope of everyone. The model described here is for "On2"—2 ft. gauge in O scale—but some of the angles on this can be used for Sn3—On3—or other scales.

Floyd Ellington and I have discussed this project for some time. We knew that a 60 ton 0-4-0T in HO, like the "Booster" or the Varney "Dockside"—will provide the mechanism in correct proportions for a 12 ton 0-4-0T in 0 scale, and the gauge conversion is very simple and non-critical. However the superstructure details presented some problems as the HO stack and domes and cab would be too small. But that's where the Northwestern model comes in, and it proved to be a simple matter to do the "grafting." As Floyd and I watched this sturdy little kettle buzz along the ½" gauge track in my cellar, he said—well, it's made from a "Booster," so let's call it the "Rooster"—and here it is—a bantam rooster!

EXPLODED VIEW SHOWING LOCATION OF VARIOUS PARTS.

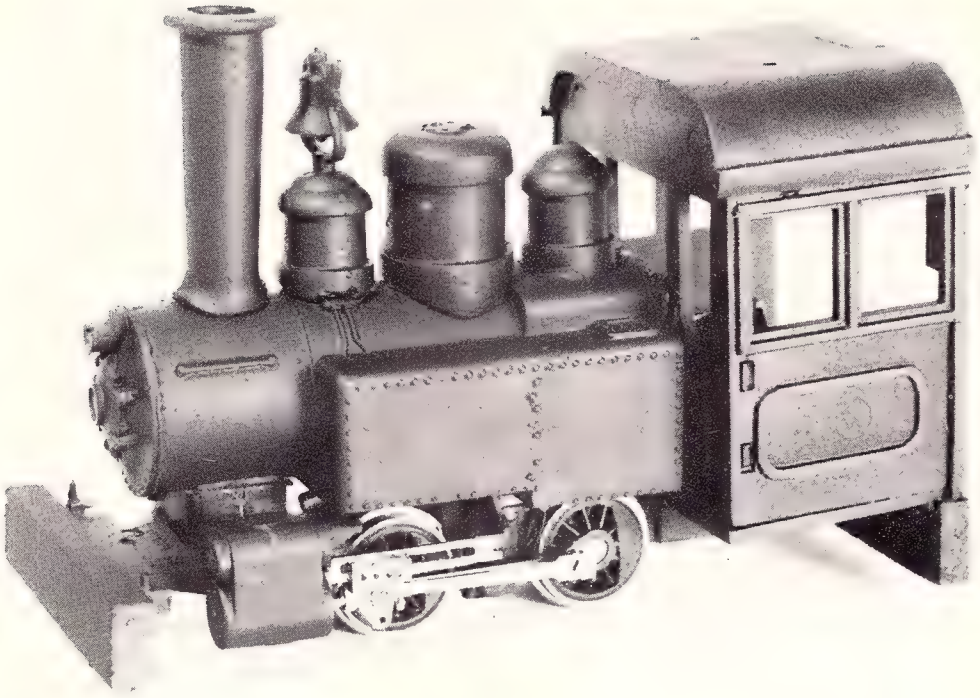


Getting Started

The first job is to file down the main frame where the drivers will go in closer together. Refer to the exploded sketch. The ½" width of the main frame is taken down to ⅜" as shown. (For Sn3, it's 7/16", and other dimensions corresponding, as Sn3 gauge is 9/16"—or 1/16" wider than On2.) File the retainer plate down to this narrower width as well. Mantua's neat arrangement for electrical pick-up on the left hand side has come in too. I drilled and tapped the mounting screw hole deeper, and cut a groove to accommodate the crimp in the pickup tab on that side, as shown.

Narrowing the gauge of the Mantua drivers to On2 is simple. It is simply a question of sliding the wheels in equally on the axle with the gear (to keep the gear centered) and one wheel in on the other axle—so that they are 7/16" in the clear back-to-back.

Before doing that, the spots on the axles where the wheels will be moved to are "knurled" with the edge of a file—making tiny ridges



that grip the wheel. This is done as in the little sketch. A bar of metal or piece of hard wood in the vise permits you to roll the axle back and forth under the file without any contact or pressure on the wheels.

Around the crank pin hole on each driver is a slightly raised boss to keep the side rod away from the driver face, and this we want to keep out of contact in pressing the wheels in as it would make a lopsided bearing. As diagrammed, on one side it is kept above the jaw of the vise, but the other is at 90 degrees. We also need somewhere for the axle to go, and so the retaining plate comes in handy. I filed out tiny scallops on the inside of the gear slot in the plate to accommodate the crank boss on that side, and the assembly was placed in the vise for narrowing as shown. Here I made a boo-boo; I didn't get one pair of drivers narrowed enough, and my loco later took a dive—but survived. This is a rugged kettle, this Rooster.

The lateral spacing of the HO cylinders is a scale 3" too much in On2, but that doesn't bother me. What did bother me for a while was the piston valves, instead of the old-time square-chest slide valves. But in a recent (1920) Porter catalog I found that they have been putting piston valves on steamers this small, and thus not superheated steamers. Now I plan to add outside valve gear as available for the Booster.

When I got my drivers narrowed, the excess axle was filed off flush, and the axle bushings trimmed down to suit, I put them into the frame and found them in fine quarter and free-rolling—a credit to Mantua.

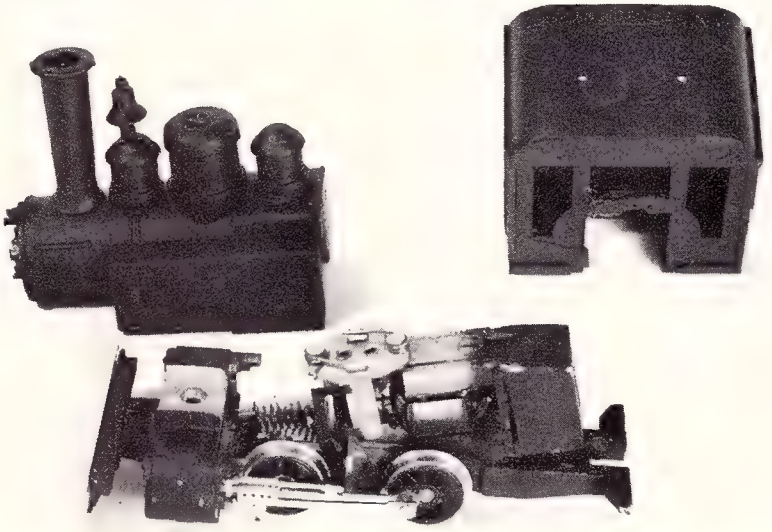
The next job is to narrow gauge the motor. I took the screws out of the brass frame holding the brushes and the armature, and removed them. The bottom iron has to be ground down on both sides just to the extent that it comes in between the rear drivers. To keep the iron filings off the magnet and out of the rear bearing of the armature shaft, I wrapped everything up in tape except the iron to be ground. This went very fast.

This covers the mechanical side of the narrow gauging, and for Sn3, the HO superstructure is not too small because a small loco has a smaller cab, et.—although a taller stack would perk it up. In Sn3 you have a loco of 26 tons prototype with 36" drivers; a mite heavy on just four wheels for light track, but a size and design often used for heavy mill work.

The bantam Rooster is shown above, a typical 12 ton locomotive for On2 gauge. The conversion of this locomotive to narrow gauge can be done in an evening. Cab comes from plastic Northwestern Porter loco.

For On3, you will of course want a widened cylinder saddle and the drivers must be remounted on longer axles with washers to avoid side slap. In any gauge of track in O scale, this is a 27" driver of a size used for many jobs from light mill work up to full road status hauling passengers on such a road as the famous 2 ft. gauge Darjeeling Himalayan RR in India. It takes an 0-4-0T to round the DH's "Agony Curve"—a 70 ft. radius bend on one of their double spiral loops! And in O scale narrow gauge, the Rooster will steam right around curves as sharp as anything in HO! Since a 24 ft. O-n car is hardly any longer than a standard 40 ft. car in HO, this opens up a lot of possibilities hardly touched as yet in the larger scale for small pikes!

The Booster frame is easily filed down, along with the lower portion of the motor, so that the drivers may be pressed closer together. Hand files and an ordinary vise will do the job; nothing is tricky.



SPECIAL SALE
1942 ISSUES
RAILROAD MODEL CRAFTSMAN

ADD TO YOUR LIBRARY — STOCKS ARE LIMITED — RARE ISSUES — ORDER NOW!!

February 1942 ☐
Frisco Mountain Engine (O)
Compact Portable HO Pike
Silver Solding Hints
Vanderbilt Tender (C&O)
A rebuilt Interurban—Schopp

March 1942 ☐
Heinz Venegar Tank Car (O)
A Quaint Water Tower
9x8 portable HO pike
Interurban Frt Cars—Schopp
Live Steam Fuels & Burners

April 1942 ☐
Canadian Pacific HO Reefer
Simple Block Protection Wiring
Frisco Heavy Duty 2-8-2 Austin
Interurban Frt Cars Part II
Live Steam Valve Gear

May 1942 ☐
Diesel Electric Switcher—Austin
Fire Trucks for your HO pike
Hotel in HO—Schopp
Interurban Layout for HO
Frisco 4-8-2 (Austin)

June 1942 ☐
Your Pike and War
Diesel Electric Switcher
Two Rail Automatic Blocks
Simplified Railroading (Hi-Rail)
Layout Contest Winner

July 1942 ☐
All Gauge Turntable
Bay Window Caboose
Streamlined Hiawatha 4-4-2
First Prize HO Layout
Track Tables for HI Rail
Semi Portable RR Layouts
Make your own Track Switches

August 1942 ☐
A DeLuxe HO Model Railroad
Build a Concord Fire Truck
Second Prize HO Layout
More on Table Work (Hi Rail)
Plan Your Mountains

September 1942 ☐
Build an 1895 Passenger Train
An 1872 Caboose (Bobber)
The Book of Rules for Modeling
Third Prize HO Layout
Streamlined Atlantic Part II
Sydney Suburban Cars
Track Limits for Hi Rail

October 1942 ☐
1875 Fire Station, Concord NH
Low Cost Rolling Stock
Build a Live Steam Tractor
Book of Rules Part II
Dinky—an early trolley—Schopp
Mating Tinplate Track
NYC Hudson Streamliner

November 1942 ☐
Innovations of Layout Building
Streamlined Atlantic Tender
Modern Aerial Ladder Fire Truck
Electrical Ideas for Your Pike
Roadbeds—How to Make Your Own

December 1942 ☐
65 Ton Diesel Electric Switcher
Prize Winning OO Layout
Build an Elevated Train—Schopp
Cuts and Fills for your Pike
Live Steam Tractor—Part II
Flags and Marker Lamps

All Copies 50c ea; Eleven for $4.00

Railroad Model Craftsman
Ramsey, New Jersey
Please rush me the back issues of Railroad Model Craftsman, postpaid, as checked below. Enclosed is $____
☐ Feb 42 ☐ Mar 42 ☐ Apr 42 ☐ May 42
☐ Jun 42 ☐ Jul 42 ☐ Aug 42 ☐ Sep 42
☐ Oct 42 ☐ Nov 42 ☐ Dec 42 ☐ Eleven 42

Name_____

Address_____

City & State_____

The HO cab is narrow for O-n, although there are prototypes . . . but it is definitely too low. I first planned just to jack the roof up about ¼", but when half way through the job, decided to scrap it and used the Northwestern plastic cab instead although it's slightly big on width and height. However, that adds to the diminutive effect.

The HO cab was thus completely removed including the turbo-generator that was against it. The plastic cab sides were cut to remove the doors and rear tank and the step-down in the floor. The roof was trimmed accordingly, and the roof vent slot remaining was plugged with a strip of plastic trimmed from a discarded part. The front wall and floor are cut to take the motor magnet as shown. The rear could be wide open, but the roof is strengthened and appearance is better if the rear sheet is cut from the rear tank and moved into place in back, and pieced out with strips trimmed from discarded parts.

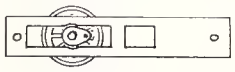
The plastic stack and domes are easily cut free of the plastic boiler as they are on the "half shell." I honed down the HO stack to act as a mounting stud for the plastic stack. The HO sand dome was treated similarly for the front sand dome, while the HO steam dome and whistle together hold the O scale steam dome nicely. The rear sand dome sits down on the HO bell. You could leave this dome off, and put an O scale bell there. The plastic headlight can go in front of the stack and the HO headlight can be ground away—or you can grind it down to form a bracket for a bell in front and dispense with a headlight. Or the bell can go on top of a sand dome as I've drawn it. That wierd "rivet detail" on these items is easily scraped off.

I tried the dome halves in place with an elastic band around them before cementing them together with plastic cement. Some hollowing out of the front dome and stack helped them to fit, and you'll have to notch the steam dome base down on the corner of the firebox. When set, these were all cemented in place with aeroplane glue.

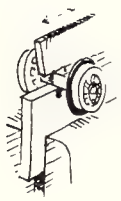
The cab does not come up snug against the side tanks; there is a slight gap as it contacts just the rear edge of the firebox. A couple of 2/56 screws with washers to maintain spacing, driven through the front wall down below and into the side tank backs, will hold it fine. The cab is shorter than the HO cab with its fuel tank was, and so I trimmed off the back of the main frame to accommodate the cab and the rear buffer beam which goes under the floor along the back edge. These beams are a scale 9" thick and about 24" deep, and extend the width of the cab, front and back. They protect the engine in a derailment—and I'm glad I had them on when my Rooster jumped off a trestle for a drop of several feet; otherwise I'd have all this to do over again! The cab floor can be screwed to the main frame, and glued and/or screwed to the rear beam. The front beam is applied against the HO beam, supported by the HO steps, and held with glue and the little angle shown which uses the HO coupler mounting hole.

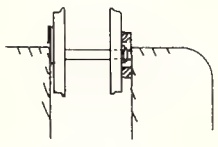
The prototype locos of this size were fitted with anything from link and pin couplers up through loop-and-dog rigs (like the Mantua and Baker couplers) to narrow gauge model (¾" size) MBC automatics, for which the HO NMRA automatic or the Kaydee can be used for On. The HO coupler pockets can be used with the buffer beams recessed to take them, or you can use the simple drawhead shown here on the front beam, bent up from tin or filed from brass bar and pinned or screwed in place.

Another time we will describe various types of cars to go with this bantam Rooster—little side dumps, quarry flats, log racks, box cars, bobtail passenger cars—all short four-wheelers not much more than matchbox size—in O scale yet! Or adaptable to any other scale in terms of larger prototypes.



Retainer plate is used to hold drivers in vise during narrowing operation; prevents crank boss from becoming lopsided. Gear slot must be filed slightly to allow boss to fit.





End view shows how drivers are held in vise.

Method of crimping axle so as to better hold driver firmly in position is shown. Axle is placed on wood strip held in vise; is rotated by file rolled firmly on part to be knurled.

CORRS

812-818 NINTH ST., N. W.
WASHINGTON — — 1, D. C.

WHEN IN WASHINGTON PAY US A VISIT

We stock a complete line of motive power in HO gauge and building kits. You can buy with confidence at Corr's. Efficient, 24-hour service on all mail orders.

HO SPECIAL ASSORTED SIZES

5 painted HO Mountains with trees. Reg. $10.95

SALE $6.49 EACH

O GAUGE HAND CAR
REG. 50c
3 FOR 98c

SPECIAL MATCH BOX SERIES

No. 1	Diesel Road Loader	50c ea.
No. 2	Dumper	
No. 3	Cement Mixer	NOT MADE
No. 4	Tractor	
No 5	Double Deck Bus	IN HO SCALE
No. 6	Quarry Truck	
No. 7	Horse Drawn Milk Float	BUT
No. 8	Caterpillar Tractor	CAN BE
No. 9	Fire Escape	
No. 10	Mech. Horse and Trailer	USED ON
No. 11	Road Tanker	
No. 12	Land Rover	HO
No. 13	Wrecker	
No. 14	Ambulance	LAYOUTS
No. 15	Trailer Cab	
No. 16	Trailer Flat	
No. 17	Moving Van	
No. 18	Bulldozer	
No. 19	MG Sport car	
No. 20	Covered wagon 60c	

FLEISCHMANN 4-6-2 HO LOCO

All metal, ready to run. Headlight, valve gear. Beautiful detail. Length over 12" with tender.

PRICE $23.50

Relay Switch Machines and Signal Motors
SAVE Reg. $1.50
2 FOR $1.79
OUR CHOICE OF ABOVE

FLEISCHMANN REAL STEAM ENGINE

Brass boiler, flywheel, Works accessories. SAFE.

PRICE $11.50

ESBIT DRY FUEL for above 20 tablets for 49c.

O OR 027 TINPLATE SIGNAL TWO LIGHT
REG. 3.50
SALE 1.99

BLACK
YELLOW
ROOF BROWN
CABOOSE RED
GREEN
BLUE
ORANGE
SOCONY RED

RAILROAD PAINT
REG. 40c BOTTLE
6 FOR $1.29
OUR CHOICE OF ABOVE

SPECIAL
ALL GAUGE BELL CRANK
REG. 35c
SALE 6 FOR 99c
LIMITED NUMBER

SPECIAL DUMMY COUPLERS
REG. 10c PR.
24 PR. $1.39

HO SPECIAL
HAY WAGON
CARRY ALL
REG. $2.60
SALE ALL 4 FOR $1.49
HANGING STREET LIGHT
TRAFFIC LIGHT

SPECIAL
ALL GAUGE SLEEVE SWITCH
REG. 50c
SALE 6 FOR $1.49
LIMITED NUMBER

O GAUGE TINPLATE PASS CAR READY
TO ROLL REG. $5.00
NOW $2.99
LIMITED NUMBER

HOW TO ORDER—Please send remittance in full by check or money order plus 10% for postage and packing. We do not ship C.O.D.

ORDERS SHIPPED SAME DAY RECEIVED. WE SHIP FROM STOCK. WE ADVERTISE ONLY MERCHANDISE THAT IS ALREADY ON OUR SHELVES

O GAUGE DECAL SPECIAL

Box, Flat, Reefer, Gondola, Caboose, and Hopper

Reg. 40c SET. NOW 12 SETS FOR $2.39 our choice of above

SPECIAL PAINT BY NUMBER SETS
CLOSE OUT
REG. $2.50
SALE $1.49 EA.

CORR'S
812-818 Ninth St. NW—Dept. MC
Washington 1, D. C.

(Use separate paper for additional orders)

Gentlemen:

Please send me: .....

☐ Ships and Historical Models Catalog; 25c
☐ New Military Miniatures Catalog; 35c

Enclosed .....

Name .....
Address .....
City ..... State .....

MODEL BUILDERS SUPPLIES
LAYOUT BLUE — Fast dry brush-cap 50c
CUTTING COMPOUND — for better threads—longer tool life .....50c—$1.00
See your local hobby or hardware dealer or order diirect. (Shipped P.P. Prepaid.) .....
ROSSMOYNE MODEL PRODUCTS
P. O. Box 1035 Rossmoyne, Ohio

SAVE CLOSEOUTS SAVE
Lindsay Switch Motors .....Usually $2.95 only 2.40
Lindsay Mini Motors .....Usually $1.95 only 1.60
Plus 5c per motor for postage and packing
Bargain Flyer 5c (No Stamps)
BOB'S HOBBY SHOP
54 Sycamore Street
BElmont 79, Mass.
IVanhoe 4-6588 Call After 3:00 P.M. Only

OK ***Streamliners.....***
The latest in HO Model Railroading: Car Kits, Assembled Cars, Train Sets and Accessories
At Hobby Shops, or Write:
HERKIMER TOOL & MODEL WORKS, INC.
288 Harter Street Herkimer, N. Y.

READY TO RUN
Bowser K-11 Pacific w/tender $39.95
Penn Line E-6 Atlantic w/tender 36.95
Varney Casey Jones w/tender 29.95
Varney EMD Diesel Switcher 24.95
Globe F-7 diesel, dual powered 15.95
Athearn 40' R. R. or Reg. Box 4.25
Athearn 40' Reefer or Special Box 4.50
Ulrich hopper or gen'l service gon. 4.75
Mantua streamlined pass. cars, each 5.95
Send check or money order to
BILT-RITE MODELS COMPANY
P. O. Box 133 Ridgewood, N. J.

FLOQUIL MODEL RAILROAD COLORS

COST LESS!

Floquil Colors are as thrifty as a Scotchman. One coat (less than 1/10,000 inch) is all it takes to cover your model with a skin-tight "to scale" finish like a metal plating. Will not obscure the most delicate detail. Dust free in 2-5 minutes. 26 authentic railroad colors. ACCEPT NO SUBSTITUTES!

Write Dept. DR for Instruction Brochure

PAINT TO SCALE WITH FLOQUIL RAILROAD COLORS

Selected As the Best . . . As the Best

LOOK FOR SEAL OF QUALITY

FLOQUIL PRODUCTS COBLESKILL, N. Y.

TROUBLE SHOOTING

Cutting Rail

▶ What is the favored way to cut HO gauge rails?—Russell O'Brien.

ANSWER: If rail is already laid, use a cut-off disc in a motor hand tool, or a fine toothed razor saw. These or a jewelers' saw may also be used before the rail is laid. If you have a pair of tin-snips, rail held squarely in them can be cut nicely with one good end, one somewhat mashed which can then be retrimmed.

Building With Sheet Copper

▶ I have a source of scrap sheet copper which would cost me nothing. Am wondering whether this material would be suitable for "scratch-building" model locomotives and cars. I note that the experts all seem to use brass and wonder if there is any reason for the preference. I an also get galvanized iron pieces and would like your opinion of using that material. As you may guess, my father is a roofer.—D. Charles Wright.

ANSWER: Copper is normally more expensive than brass, of which it is one ingredient. Copper also conducts heat better. This would seem to be an advantage, but in soldering up a car or engine it is likely to prove a disadvantage since so much heat will be required to make a joint that the capacity of the soldering iron may not be sufficient. It conducts the heat from the iron away from the joint so fast that nearby joints may come unsoldered unless specially wrapped with damp clothes or bound with wire or otherwise clamped. In addition copper is notoriously mean (to use a printable word) to drill or machine if that is necessary. It is also soft. Galvanized iron (or even tin-plate from tin cans or otherwise) is suitable for model work except for the rust hazard and the somewhat imaginary sapping of the power of magnets in motors.

However a free source of material is not to be sneezed at and I suggest that you at least try out the copper and galvanized iron. Certainly you can use them for some parts of some jobs. Brass is not usually soft, solders well, and can be drilled or machined with a minimum of aggravation. The 2-8-0 camelback described elsewhere in this issue was built in part of copper.

HO Power Supply

▶ We have a good standard power pack, but when a second engine is run with it both engines run slow. We plan on adding a small power pack to operate the yards, changing from large to small pack for trains entering from a run. Now we have an old Lionel transformer, which we see upon examination, has the speed control directly on the transformer windings. Could a rectifier be wired from the terminal post to the track to change the current to D.C.? Or would it be better to use separate rheostats? Of course a DPDT reverse switch would be included.—Douglas Bruce, Red Deer, Alta.

ANSWER: Yes. This is a preferred method which you will find on a good many of the more recent power packs. It has the advantage of taking no more current than required instead of dissipating the unwanted voltage in heat, as a regular rheotsat does. As long as your transformer will deliver 15 or 16 volts A.C.,, you are o.k., since when rectified that will be reduced to about 12v. D.C. If, because higher A.C. voltage is posible, there is a chance you might give more than 12v D.C., put a stop of some kind on the transformer handle to keep it below 16v.

Table Height

▶ What is the best height for a model railroad table. I want to build a permanent layout and want to do it in the accepted way.—Harvey H. Hofmeister, St. Louis, Mo.

ANSWER: The most common table height used is about 42". Such a height is easy to work on and still permits you to stretch over for a good reach. The height also allows easy stooping under the layout for access to wires and switch machines.

Some few fans prefer higher heights, up to 60", which gives an eye level view of the layout but this is rather tough on the small fry who need a boost up for a look-see. ther modelers like a real low table of 12" or 18", permitting comfortable sitting in chairs while the trains are running. Construction on such layouts can be back-breaking unless the work is done on a bench and later put in place. Again, most builders stick with the 40" height.

A Gift (Iron) Horse

▶ I have been given an HO gauge Pacific for which I would like you to help me obtain parts. The driving wheels are partly broken or chipped and need replacing, the motor is of an unusual design and has its mounting lug broken off. It will run but cannot be fastened down. The engine says Varney on it, but local dealers cannot furnish new parts for it. Because of its low cost (nothing) to me, I would like to fix it up and get it running on my railroad. Can you advise we where to obtain parts?—L. Chadwick, Cincinnati, O.

ANSWER: This must be one of the Pacifics made by Varney before the war, and replaced by two later models, which are themselves out of production. They had all-Zamak wheels on the uninsulated side and these are prone to break or warp easily from aging. These wheels are not longer available but an ad in the RC Swappers Column should help you obtain them from someone who may have a partial set. An even better idea is to replace the wheel sets with others of the same size and of modern design (with brass treads to protect the cast center). New front-ends for the old motors may be obtained directly from Varney. If the armature is still wound for the old six volt current (and it probably is), it may be replaced with a Pittman DC-71 armature which is already 12 volts. Many of these old locos had cast brass boilers, and all had sprung and equalized drivers (excepting the geared axle). They mounted with a screw *across* the frame, right?

For identification purposes, the Var-

ney Super-Pacific had *all* sprung drivers and a special motor which floated with the geared axle. This was a post-war model. The Economy pacific had unsprung drivers and a DC-71 motor. The drivers on both these post-war models were attached with screws into the ends of the axles, which had milled ends so that they were self-quartering.

Swapper's Lament

▶ I am concerned over the correct procedure in making a deal with a person who advertises in the Swapper's Column of RMC. Who should send his material first, I or the advertiser? On one deal I made I was quite disappointed, receiving an old sheet metal Mantua Pacific instead of one of the newer cast ones as I expected. And even in this there were some parts replaced with non-genuine parts, loose screws, etc. If I had not shipped my equipment already I would not have accepted it—Kenneth Irvine.

ANSWER: If you were buying something from an advertiser, you would send the money before he would ship, naturally, so the same could apply in straight trades, although it is really a matter of individual agreement. Certainly any kind of purchase or trade should be subject to some kind of a stated "money back" guarantee if either party is dissatisfied. A few parties who have proved to be "sharp dealers" have already been barred from the Swappers Column. The older Mantua Pacific, Reading prototype, cost almost twice as much as the later model and is considered by connoisseurs as a more desirable engine, but if it's not what you want, why not register a polite protest. You must remember that the former owner probably wanted to get rid of it because of some little fault, certainly not because it was perfect, and doubtless the same is true of whatever you gave him for it. Condition of anything offered for trade or sale should certainly be accurately described.

What To Model

▶ I want to model the New York Central Railroad. What gauge has the best choice of equipment for me?—Benjamin Bendit, Irvington, N. J.

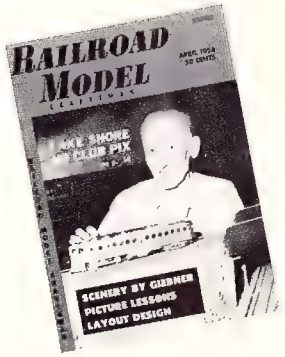
ANSWER: Almost any of the popular model gauges offers a good variety of equipment which is suitable for NYC lettering. In HO (almost any of the diesels, including the Baldwin sharknose design is correct. O gauge offers a number of suitable diesel designs also.

In the way of steam power, HO offers the K-11 pacific by Bowser; the English K-3, American Flyer, Tenshodo, or Graham-Farish 4-6-4, English mikado. International also offered a Niagara and a streamlined J-3 hudson.

A number of other popular makes can be revamped slightly to create still further accurate NYC replicas, especially in the 0-6-0, 4-8-2, 4-6-2, 2-8-2, and 2-6-0 wheel arrangements. The same is also true of TT gauge where almost all designs will create creditable versions.

In the electric locomotive field, only O gauge offers any models at all. Classes and types not available in kit form can be obtained from a number of custom builders in any gauge. Back issues of RMC contain many plans for New York Central equipment.

HOW QUICKLY "RAILROAD MODEL CRAFTSMAN" CAN BECOME A VALUED PART OF YOUR PIKE!



Assure Yourself A Full Year of Reading & Building Pleasure

And Save Money in the Bargain!

A subscription to Railroad Model Craftsman is your ticket to a full year of reading and building pleasure. Each issue is packed with the latest model building hints, ideas to gladden the heart of any model railroad enthusiast. You'll find a wide assortment of do-it-yourself projects—locomotives, cars, buildings, scenic development—plus many, many other timely hints on the construction and operation of your model railroad. By subscribing for one year you'll get more than 800 fact-filled pages of model railroad know-how. Make sure you send your order today.

RAILROAD MODEL CRAFTSMAN
Ramsey 9, New Jersey

If you don't want to mutilate your magazine, send your order and remittance in a letter.

Here's my order for a subscription to Railroad Model Crafesman. Enclosed is ☐ $12.00 for three years; ☐ $9.00 for two years; ☐ $5.00 for one year. This is a new subscription ☐; this is a renewal ☐. Send copies of the magazine each month as it is issued to:

Name .....

Address .....

City and State .....

Please add 50c per year if outside the U.S.A. or Canada

NEW-TYPE PERMANENT BINDER for Railroad Model Craftsman

- **Do your own binding in minutes**
- **Easy to follow instructions**
- **Hacksaw and handy holder included with first purchase**
- **Opens as flat as a bound book**
- **Durable, maroon imitation leather cover**
- **Stamped with name, year, volume number**
- **Monthly issues may be removed if desired**
- **Holds 12 issues**

Single binder $3.50 each
Two or more $3.00 each
Postage prepaid in U. S.
Foreign Countries extra.

ORDER TODAY—SATISFACTION GUARANTEED

Suckert Loose-Leaf Cover Co.
234 W. Larned St.
Detroit 26, Michigan

Enclosed find $ ..... Please send me ..... binders for RAILROAD MODEL CRAFTSMAN for volume ..... I understand if they are not satisfactory, I can return them for refund within ten days.

Name .....

Address .....

City ..... **Zone**..... **State**.....

ULRICH KITS
for hopped up hopper detail in less time

Get that famous ULRICH detailing on your layout for more and better HO style! These railroad workhorses have complete inside and outside authenticity of the originals—all the bracing, rivet, angle and end detail. They're all-metal, prepainted and lettered, with nylon wheel sprung trucks.

You do less puttering! Accuracy enough for the expert—ease enough for the beginner. There's less filing, simpler assembly, all parts fit. Nowhere else will you find this much detail at this little expense of time. Buy ULRICH now from your favorite hobby dealer!

Flat End Hopper—a beaut
Operating doors—metal floors that fit without filing. Wealth of detail is a credit to any layout. Road names: Pennsy, Reading, Lehigh Valley, Western Md., Burlington. **$2.90**

Peaked End Hopper—operating
Operating doors, sloped floors give superb interior. Ladders, brake gear—they're all there. Looks as good empty as full! Road name: Norfolk & Western. **$2.90**

Offset side—flat or peaked end
The famous "big hopper" with inside braces. Adds an unusual touch to your layout. Road names—Peaked end: Rock Island, Frisco. Flat end: Santa Fe, B&O, NYC, Erie, Milwaukee. **$2.90**

Send 10¢ for 1956 illustrated color catalog of complete railroad line to

ULRICH *Model kits*
PRECISION HO TOYS FOR MEN
4233 Babcock, North Hollywood, Calif.

TEST TRACK REVIEWS

Manufacturers are invited to submit new and revised products to the Test Track, Railroad Model Craftsman, Ramsey, N. . for testing and review.

HO Crossing Signal

The Test Engineer assigned to assemble Fowler's new HO Wig-Wag highway crossing warner, summed up his feelings on this new accessory in one sentence, "It does something for HO."

The Wig-Wag is not tough to build but it takes a little time and some know how plus a bit of soldering of a very elimentary nature. Briefly, the Wig-Wag is mounted at a highwya crossing and is controlled by a switch from the control panel. When a train approaches the crossing, a flip of the switch puts the unit into motion: the sign swings back and forth, a red warning light flashes on and off and a bell clanks out the familiar "bing-bing-bing-bing" which we all know so well.

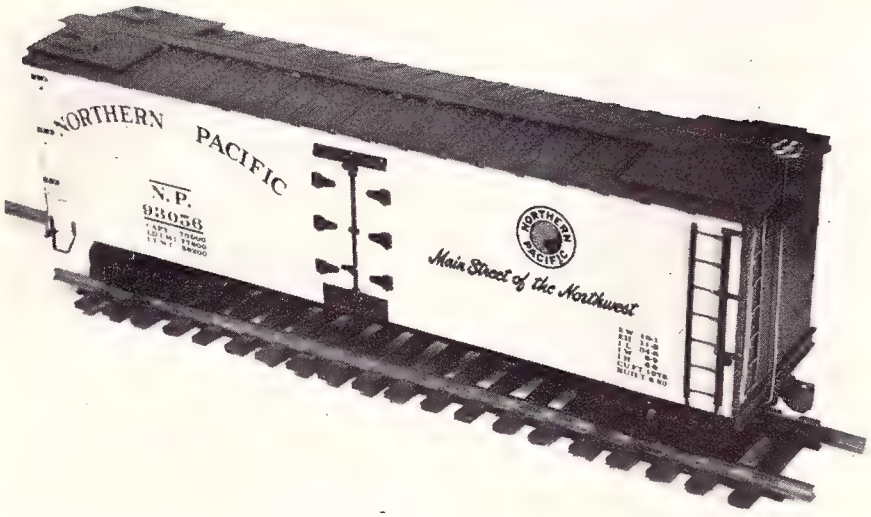
The instructions are clear and our man deviated only to the extent of making a sheet metal housing for the lamp on the post, in place of the cardboard covering suggested by the manufacturer. The wig-wag device is actuated by an electric motor mounted under the train table, connected to a cam and wire arrangement. The wire slides back and forth in the hollow post, moving the wig-wag back and forth. As the cam moves, contact is made, turning the light located in the housing above the warning sign, on and off. There is also a clapper attached to the cam which strikes a miniature cow bell. Assembly is simple but requires a little care. Some care should also be taken to avoid stripping of the plastic gears by careful meshing of gears and periodical lubrication with a light weight grease, such as Lubriplate.

The Wig-Wag may also be connected to operate automatically as trains pass over the track. Either way, it's a fascinating operating device that will pep up the appearance of any HO pike. Use of a longer post could also make Wig-Wag adaptable to any of the larger gauges. Mfd. by Don Fowler, 128 No. Almont Dr., Los Angeles 48, Calif. Price of kit, $5.50.

Refrigerator Car, O Gauge

Zimmer is one of the newer names in O gauge kits. We assembled their Northern Pacific 40 foot refrigerator car and came up with a very attractive model.

Wood parts are of milled stock, cut to shape. Strips are also included for trim work, such as on underbody detail, fascia boards, and roof walk. The sides are scored, prepainted with silk screen lettering that is sharp and clear with no annoying screen marks. End sills, hatches, and other castings, are detailed zamac castings with minimum of flash. An ample supply of escutcheon pins are included, along



with ladders, grab irons, and other hardware. Plans are full size for a 40 foot car and supplementary instructions cover specific details for this car. Trucks are not included. No matching paints are included with this kit although All-Nation lacquers are recommended. The kit assembles easily with no problems coming up during construction. Additional sides are also available from the manufacturer with minor variations in car detail. Mfd. by Zimmer Scale Models, 4321 North Mason Ave., Chicago 34, Ill.

Ho Metal Car Parts

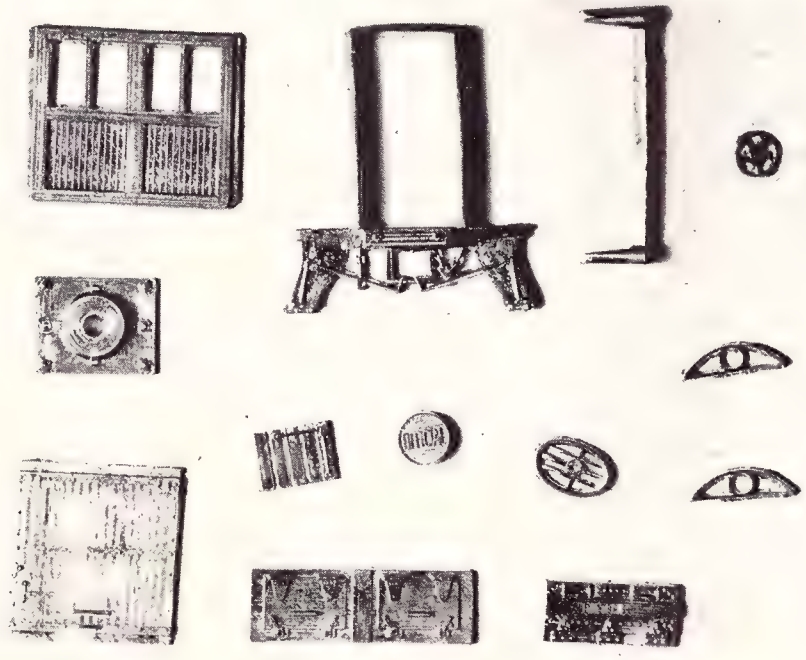
An extensive line of parts for HO pasenger and freight cars, both present day and old time, has been brought to our attention and they may answer the needs of many readers. Available are various car ends, queen posts, doors of many types, cast windows, hatches, roof ends, car ends for both open and closed cars, etc.

The casting are highly detailed and cast in a lead base metal. It is possible to solder to these casting without damaging them by heat if a very small iron (such as a pencil iron), is used and if the modeler is careful. For most purposes, it will be possible to cement these parts in place. Mfd. by Binkley Models, Box 31, Inglewood, California. For prices, check mfrs. catalog.

HO Rubber Roadbed

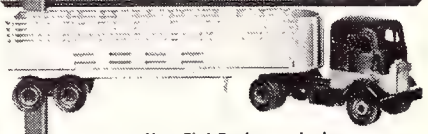
Here's the first new release from the 1956 Gilbert HO train line. It's rubber roadbed for HO snap-track. Available in both straight and curved sections, the HO-606 straight sections exactly fits a length of straight snap-track. The HO-618 18" radius curve section is for use with either 18" or 15" snap-track curved sections.

The 18" radius curved roadbed can be used with 15" radius very easily by cutting off the excess length or by letting the excess length extend partially under the next track section. Rubber edges can also be cut away for ter-



ULRICH
accessory kits
— more realism in less time

The last word in authentic HO gauge kits—to spark up a model RR layout, to add realism to ship and aircraft outfits. All-metal construction, pre-painted and lettered vans, complete underneath detailing, working wheel bogies, famous names! Lots of detail, yet simple to assemble—only ½ the time you usually need for comparable accuracy. Buy them from your hobby dealer!



New Flat Rack—exclusive

Versatile! Intricate-looking stake sides and tail gate for hauling bulk materials; removable for hauling machinery. All-metal, unpainted. Tractors: 2- or 3-axle Mack, or 3-axle Kenworth. $2.50

Mack Truck rig—easy

Clever "screw-fast" assembly is exclusive with ULRICH, takes little time, gives you excellent detail. Names: RISS, MID-STATES, ASSOCIATED TRANSPORT. $2.50

Kenworth-Fruehauf—popular

The cream of the big-truck world! Rugged Kenworth tractor, 32 ft. Fruehauf van. Exclusive Snap-Fast design. Names: P.I.E., Garrett, Denver-Chicago. $2.50

Dump Truck & Trailer—distinctive

Another great Kenworth rig, seen on all construction jobs. Detailed stack, transmission, removable trailer. This is a popular ULRICH standard you won't want to miss! $2.75

Send 10¢ for 1956 illustrated color catalog of complete line to

ULRICH Model kits
PRECISION HO TOYS FOR MEN
4233 Babcock, North Hollywood, Calif.

CUSTOM BILT LOCOS

Special frames machined to order from bar stock brass. Also complete running mechanicisms made to order, any gauge, servicing and rebuilding in H O and O gauge.

JOSEPH DORAZIO
2525 W. Main St. Norristown, Pa.

THOMAS INDUSTRIES
SHAWNEE OKLAHOMA

O GAUGE
SCALE & TINPLATE

BIG ILLUSTRATED CATALOG 25c
LOCOS—CARS—ACCESSORIES

MODEL BY MAIL
Kits - Parts - Structures - Accessories
Shipped at *Published Prices!*
No Minimum HO-S-TT Gauges
On Orders Less Than $2.00 add only a dime for postage
MODEL RAIL DEPOT
16324 Hawthorne Blvd., Lawndale, Calif

NEW PRODUCTS

Worthington Feedwater Heater	$1.00
Worthington Cold Water Pump	.95
Pyle Nat'l MO-6 Generator	.85
Nathan Straight Boiler Check Valve	.75

Coming soon—Worthington BL-2 pump (S.P. TYPE) $2.00

WESLEY MANUFACTURING COMPANY
6045 Allott Avenue Van Nuys, Calif.

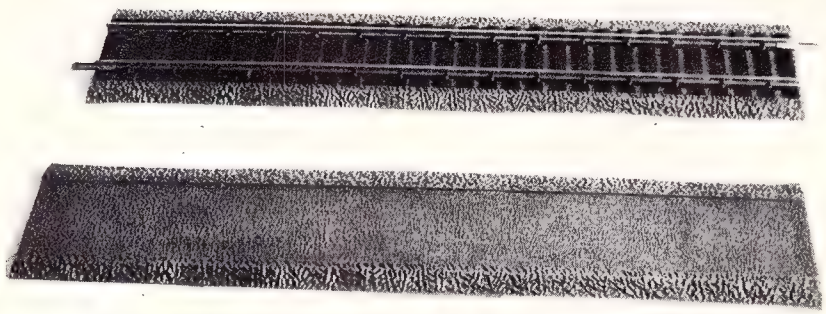
FOR OLD-TIME HO MODELING FUN!
CENTRAL VALLEY
KITS and TRUCKS

CENTRAL VALLEY
13030 SATICOY ST., NORTH HOLLYWOOD, CALIF.

UNAUTHORIZED SERVICE STATION
for all makes American HO locomotives
Repairs $3.00 up; assembly $10 to $15 except Wintons and articulateds, plus required parts. Tell me your problem.
Layout Designs prepared for all gauges at $5.00 per 100 square feet (minimum).

WILLIAM M. SCHOPP
445 S. LOGAN AVE. TRENTON 9, N. J.
Phone OWen 5-2202

IF YOUR DEALER HASN'T GOT WHAT YOU WANT
ASK HIM TO ORDER FOR YOU
HE CAN GET IT FROM TROST
TROST
MODELCRAFT & HOBBIES
3140 W 63RD ST., CHICAGO



minal track or when using rerailers. It can also be split to use under switch edges.

The roadbed sections are molded in deep grey and have a simulated ballast finish. The sides are taped and the center portion is recessed slightly so that the track will stay in position without the necessity for cementing the snap-track in place. The roadbed is only about 1/16" thick in the center portion.

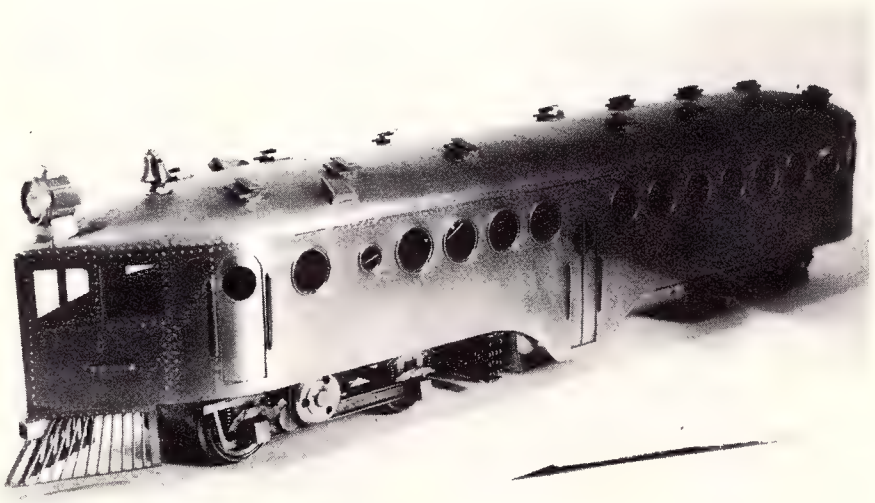
Both the curved and straight roadbed sections can also be used under flexible HO track sections and with lay-your-own track. If the roadbed sections are pushed together, the joints become almost unnoticeable. The straight roadbed sections have sufficient bend to permit their being used with wide radius curves. Perhaps some time in the future it could also be made available to the scale model trade in 25 foot uncut lengths. Mfd. by the A. C. Gilbert Company, New Haven 6, Conn. The price of these items had not been determined at press time.

McKeen Car, O Gauge

We've had the sample car above to two local clubs and a surprising number of modelers wanted to know what the streamliner was. Was is right. The streamliner dates back to the pre-World War I period when they were turned out in considerable numbers by the McKeen Motor Car Company, primarily for use on the western railroads. They were used in quantity by the Union Pacific, and Southern Pacific and also by the Virginia & Truckee, and a number of other lines.

The Japanese import is now available in HO, S, and O gauge, and of the three, the O gauge version is undoubtedly the finest. Brass construction is used throughout with an amazing amount of rivet detail. Real glass is used on all of the windows excepting the few curved rear windows which have heavy acetate. All three verisons have a working headlight. The O gauge model we inspected also has sprung trucks. Very few castings are used on the car most of the model being of sheet and bar stock.

One feature of the original prototype was a flywheel, which can be seen on the model located between the wheels of the front truck. As long as the gasoline motor was idling, the flywheel turned. Both the S and O models retain this feature. As long as there is juice flowing through the track, the flywheel turns. Stepping up the juice activates a clutch mounted on the motor-power truck drive shaft, which in turn makes the unit move with a realistic motion. The clutch consists of a disc fitting, loosely inside of another hollow disc. The smaller disc turns freely with little juice. As the current is stepped up. centrifugal force forces out 6 small steel pins mounted in holes in the smaller disc.



These grab the larger disc and cause the unit to then propel itself.

Also of interest is the front truck which has a larger wheel in the front than in the rear. The HO model also has the flywheel feature but the flywheel is geared directly to the front truck and turns only when the model is in motion. There is no clutch in the HO model.

The Japanese Permag 12 volt D.C. motor is large and appears to be well made. The floor may be removed from the McKeen model for access to the motor or truck.

No couplers are provided on the O gauge model. The prototype did haul McKeen trailer cars which resemble the power car, but have two rounded ends. An article, from which this model was designed, appeared in the March 1954 RAILROAD MODEL CRAFTSMAN and gives a good deal of the background of this type of early motor car. Mfd in Japan for Ken Kidder, Importer, Box 213, San Francisco, California. Price, HO car $30; S or O gauge cars with clutch, $75, unpainted, ready to run.

HO Power Pack

The Frontier Pack is a fine control package for a small railroad or for a single block or cab on a larger railroad. Physically the box measures 5½" x 4¼" x 3¾" and delivers 1 amp with ease. This is enough to run one HO engine and can, for a short time, run two small HO engines. The can is of heavy gauge steel, well made. There is no provision for mounting permanently to the table. Small wood strips will serve to keep the pack in one spot.

The speed control knob actuates a 25 watt, 50 ohm rheostat, straight and taper wound. A 3 amp. thermal ircuit breaker is mounted on top of the can. It may seem odd having the breaker of greater capacity than the rated capacity of the pack. Actually the pack can withstand momentary overloads long enough for the breaker to function. The circuit breaker should be replaced periodically since thermal circuit breakers do tend to become less sensitive through use.

The reverse switch is of the slide type and has a center off position. A. C. for actuating switch motors and lights is available from two of the four terminals mounted on the side of the can. Although not mentioned in the instructions, uncontrolled D. C. can be obtained from the inner A. C. binding post and any of the screws holding the can together. The pack has a one year guarantee against faulty parts or workmanship. We rate this pack a good value, in its price range. Sold by Frontier Hobbies, 3183 Bailey Ave., Buffalo 15, N. Y. Price 8.95 ppd.

WRITING THE EDITORS

For faster answers on mail sent to *Railroad Model Craftsman,* observe the following simple rules:

1. Send all mail to Railroad Model Craftsman, Ramsey, N. J.
2. Mail sent to different departments should be placed on separate sheets of paper but may be sent in the same envelope. Putting subscription and editorial requests on the same sheet will delay the editorial query.
3. Print your own name and address clearly.

T T MODELERS

We announce that we have taken over the "Gandy Dancer" line and will continue to manufacture and market the products as formerly.

"Gandy Dancer" Catalog "C", 40c ppd.

EDWIN J. FETYK

CARMEL ROUTE 2 NEW YORK

NEW 1956 CATALOG

More **Live Steam** Locomotives

NEW PICTURES

Passenger Carrying Locomotives

NEW IDEAS

You can have a backyard railroad!

All on live steam locomotives, some of which you can practically "Bolt Together"—we do the lathe and mill work. Also rough castings. RAIL and EVERYTHING FOR BUILDING LIVE STEAM LOCOMOTIVES. Old-time and modern engines and equipment in ¼", ½", ¾", 1" and 1½" scales.

Write today for our 100 page catalog. 50c per copy

LITTLE ENGINES Box A Lomita, Calif.

TRACK TESTED READY TO RUN

HO LOCOMOTIVES

Etched castings-Sprayed and baked paint job. Choice of couplers—Prompt delivery.

Bowser Articulated	$60.00
Bowser Pacific	32.50
SP 1 Tender for above engines	10.50
Pennline Mikado, Pacific or Decapod	39.50
Penn Line Atlantic	33.75
Penn Line Consolidation	37.25
Mantua Pacific, General or Goat	28.75
Mantua Mikado	32.00

PRICE LIST ON REQUEST

E. C. LEIDNER

Box 153 Saddle River Boro, N. J.

NEW HAVEN CARS

NEW HAVEN BOX CARS, Bright 40' steel sheathed AAR type beauty's. One is all red with black and white lettering the other, jet black with red doors and white lettering. Detail galore on these easy to assemble cars. Only $3.35 with sprung trucks. At your dealers now. If he doesn't have them, send direct. *Also New* — B&O Billboard box car & Pennsy Mdse. Car. See these too. Only $3.35 each. 40' AAR Steel Sheathed *Binkley's* catalog, parts galore — only 10c in coin.

Laconia's catalog, full color 25c in coin.

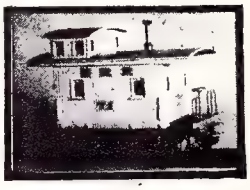
— SEND TODAY —

BINKLEY MODELS **Ho and Hon3**

BOX 31 (DEPT. RM) INGLEWOOD, CALIF.

SWITCH STAND REALISM FOR YOUR LAYOUT

M. E. W. ground throw switch stands are the smallest scale switch stands available. Fully operating, diecast, with sprung movement, assembled and ready to install. Complete with connecting bar, mounting screws. ..... **only $ .75 each**



M. E. W. DOUBLE TRUCK CABOOSE KIT

The *ideal* caboose—for ore trains, log trains, short lines, and branch lines. This sturdy, all metal caboose is die-cast in full detail. Easy assembly kit, complete with trucks—**only $2.95**
Also available in ready-to-run form—$4.25

The M. E. W. line also includes: Log Buggy, Hi-Level Switch Stand, Hi-speed Track Layer, Gold Metal Spikes, Universal Track Gauge.

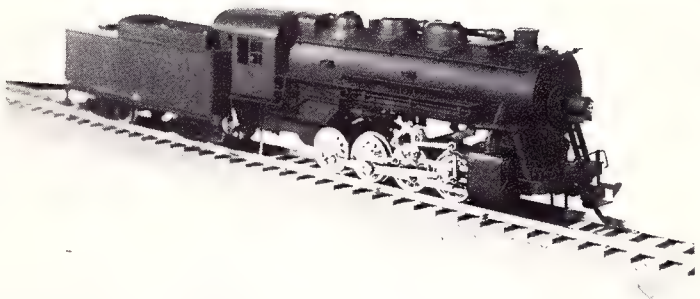
(See these items at your dealers.)
(If unavailable, write direct.) For our latest literature, *Send Stamped Envelope To Dep't MC*

MODEL ENGINEERING WORKS

Box 261 *Unique Miniatures* Monrovia, Calif.

Another INTERNATIONAL Scoop!

The MKT 0-8-0



The MKT 0-8-0 is the remarkably detailed scale model you saw featured in the Nov.. Dec. R.R. Model Craftsman.

Mastercrafted down to the piping and value gear. The weighted tender has an arch bar truck with 2nd and 4th wheels blind to negotiate your tight radius snap button connection to tender.

The MKT 0-8-0 is another welcome member of International's long line of HO'S.

S.D.A. Kit **$25.** Complete (ready to run) **$30.**

Send 25c for latest catalog & supplements and get a FREE pair of "KUPEEZE."

INTERNATIONAL MODELS, INC. 33 UNION SQ. W. NEW YORK 3, N. Y.

"SWAPPERS COLUMN"

A free trading service open to all readers. Non-commercial items sent are published free and in good faith. RMC can assume no responsibility for differences occurring between reader and advertiser. Make sure that you understand all details of trades before concluding negotiations. Items submitted must be kept short. Abbreviate where possible. We cannot repeat ads and we reserve the right to reject those we feel to be objectionable or beyond the scope of this free service. Ads over 50 words in length will be returned. Priority will always be given those not sending in ads more than once every 3 months. No commercial classified ads accepted. Write for rates of one inch box display ads on opposite page.

EXCHANGE PASSES

ERIE SHORTLINE: Walter Site Jr., 264 Ferona Way, Rutherford, N. J.

NORTHERN LAKE TRACTION: Leon Principal, 811 7th Ave., Redwood City, Calif.

SOUTHERN ADELAIDE RR: Max W. Dickson, 3 Lynmouth Ave., Brighton Park, South Australia (Worth sending for. Ed.)

CAPITOL G LINES: Norman C. Guinard, 700 King Edward Ave., Res. No. 5, Room 515 Ottawa, Ontario.

BRATENAHL & SOUTHERN RR: Old passes revoked. Send for new pass. Also exchange. K. Gaidziunas, 317 Corning Dr., Bratenahl 8, Ohio.

INDIAN VALLEY & SUMMIT RR: Bert L. Marsh, Star Rte, Box 3, Mojave, Calif.

GOLD HILL & PACIFIC RY: J. E. Triebes, 949½ Marine, Boulder, Col.

CORRESPOND

TEENAGERS: Tom Hodge, 333 E. Las Flores Dr., Altadena, Calif.

TEENAGERS: Bryan Garland, The Nook, Beeston Hill, Sheringham, Norfolk England.

TRADE

TRADE RC equip 27½ MC band, for HO equip. Prefer engines or new car kits. Also sell. H. Swenson, 723 53rd St., Brooklyn 20, N. Y.

PAUL JONES: you did not include your address.

WANT TOY AUTOS: for HO pike, old Tootsietoys preferred, no plastic. Send clear descriptions and price. D. K. Gast, 3736 Prestwick Dr., Los Angeles 27, Calif.

SELL ALL-NATION ATLANTIC, super detailed, ready to run on Lionel, needs paint only, $75. Lionel FM 2321, one year old, $20. T. Failmezger, 125 Green Ave., Madison, N. J.

HAVE STD GAUGE Lionel 381E, 408, 402, 380, 42, 38, etc. 072 gauge 700E, 763E, Penn 0-6-0, 2900 and 700 series frt. Back RMC, MRR, MT, etc. Want old Toy Trains, trolleys, rr calendars before 1939. Ben Smith, 265 Tompkins Ave, Brooklyn 16, N. Y.

WANTED: Universal midget circular saw outfit. Paasche spray gun. MINI RRING Feb. and Mar. 1939. Pay cash or swap O, HO kits. Howell Day, 300 Vail Ave., Dunellen, N. J.

TRADE HO: 3-unit Varney F-3 MKT paint and letter. DC-70 motor 4 wheel drive. Want Mantua mikado or what have you. Chas. M. Mizell Jr., 6623 Santa Fe Ave., Dallas 23, Texas.

SELL OO GAUGE: Locos, cars, rail, etc. Built up and kits. Stamp for list. Clinton Ferris, 333 Union Place, Akron 4, Ohio.

SWAP OR SELL: Have Varney brute A, EMD switcher 8 whl power, Globe twin A. Both Hobbytown powered. Want: Belle 80s. Mogul, Casey Jones, Brass Betsy, and MDC 0-6-0. F. R. Woolard, 332 W. Staat St., Fortville, Ind.

FOR SALE. $100 HO for $40. Good cond. 3 locos, 10 cars, track, etc. Will trade for 8mm movie camera or movies. Larry Cohen, 2155 Grand Concourse, New York 53, N. Y.

TRADE FOR STAMPS: Have HO locos, elec equip, TT, magazines, several cameras. Henry Loidolt, 3811 Gunderson, Berwyn, Ill.

WANTED: Clean copies RMC, MRR, Trains. Also O traction equipment. Will trade rr sound effect records, misc rr items. Swap lists. W. A. Steventon, Hawkins, Wisconsin.

TRADE 22 cal Marlin rifle, bolt action, 8 shot clip, for Lionel 2343 Santa Fe diesel or what have you in good cond. George Olsaver, 5 Hickok Place, Burlington, Vt.

SWAP 17 x 23 color prints N&W trains for new HO kits or sell for 1.98 or set of 7 for $8. T. Delaney, 1933 Laura Road, Route 10, Box 189C, Roanoke, Va.

TRADE: 2 racing hydroplanes, class D Hornet and McCoy equipped. Taken trophies. Flywheels, etc. Bridle included. Thimble Drome 19cc. Want HO diesels, elec, cars, track. Value $150. R. B. Jordan, 30 Miller Place, Valley Stream, L. I.

MARX FOR SALE: 899 loco, tender, log car, flat, caboose. Figures, etc. All for $5, like new. R. P. Hahn, 675 Northampton St., Hellertown, Pa.

FOR SALE: Lionel GG-1 2340, 30 022 switches, gantry 282, 11 WCS sec, 6 steam locos, 2 twin motor diesels, DL&W FM, 45 frt, 9 pass, etc. Table, power, etc. Stamped envelope for list. H. Cawelti, Terra Bella, Calif.

FOR SALE: Powered SP Globe diesel, $7. Larry Close, 13 N. Jefferson, Shelby, Ohio.

WILL BUY TT structures, track. Trade Mantua box car kit, 2 pr pass couplers, ramp, pr Globe bolsters for $4.75 scenic materials. E. Gautier, 718 Upperline, New Orleans, La.

TRADE FOR HO: Model pilot boat 27" long, 2 masted, 3 jibbed, finished, for mantelpiece. Value $40. Walter Kosnowski, 705 Vermont St., Brooklyn 12, N. Y.

WANTED: S gauge equip, scale or tinplate. Also like correspond. All replies ansd. Gordon H. Fenner, 502 N. Chicago St., Dwight, Ill.

FOR SALE: Lionel layout . 5x9. 0-6-0, UP diesel, 6 frt, 2 pass. $225. T. N. Figuers, 2302 Douglas Dr., San Angelo, Texas.

TRADE S GAUGE scale for HO. Rex 0-4-0, Suburban, 5 car kits, 5 Peare switches, rail, misc. K. Butterfield, 624 Arthur, Plymouth, Mich.

SWAP for HO articulated. Wade lathe with access. Back issues model mags. HO diesels for HO steam. Collectors items in std and O. 3c stamp. Clark A. Benson, 99 Edison Street, Stratford, Conn.

SWAP Winchester model 64 30-30 deer rifle, Model 12 shotgun pump type. Aircraft part.s Need late AF tinplate. Walter E. Parker, Seaplane Base, Port Henry, N. Y.

SELL HO Penn Line pacific, 21 frt, 5 pass, power pack, track. Cost $142, sell for $100. Don D. Fowler, 651 Lincoln Way West, Chambersburg, Pa.

WANT HO Gauge locos, preferably old ones needing repair. Want AF hudson. All replies ansd. State price. R. E. Swick, Rte 1, Marion, Iowa.

TRADE OR SELL for HO. Lionel Std gauge incldg 390E loco, 318E elec loco, 219 wrecker, 6 pass, 4 frt, gd cond. Send for list or make offer. Steve Breckley, 173 Read Avenue, Tuckahoe, N. Y.

SELL: 2 375 AF S ga diesel switchers, horn and Pul-Mor. $20 each. Jerry Seybold, Bennett Rd, Dunkirk, N. Y.

TRADE FOR S GAUGE: Want scale or AF, anything good. Have 16mm sound films, cartoons, musicals. E. Tognacci, 16 Pine St., Framingham, Mass.

SWAP STAMP collection, album and 2000 stamps, books, etc, for Dockside or Penn Line switcher, or other small engines. Send list. John Ramsden, 198 Cedar Street, Dedham, Mass.

SWAP Lionel O eng, switches, track, for HO equipment. Joe Bielleckl, Jr., 212 W. Ridge Pike, Conshohocken, Pa.

WANT HO Devore couplers, auto open knuckle type without draft gear. None wanted of type similar to MDC. Advise quantity, price. Scott E. Moyer, 3916 5th St., NW, Washington, DC.

TRADE BOWSER 4-8-2, Hobbytown road switcher, dual drive, for Mantua mike, Penn Line Decapod, or Consolidation. ALSO EXCHANGE PASSES. Armand Premo, Box 130, Enosburg Falls, Vt.

SELL HO Penn Line K-4, 21 frt, 5 pass, power pack, track. Cost $142. Sell for $100. Donald W. Fowler, 651 Lincoln Way West, Chambersburg, Pa.

TRADE LIONEL 224 loco w/6026-W tender, 685 loco w/2671-W tender, 2 oil car, gondola, flat, box, caboose, etc., for American Flyer S or HO gauge sets. Eugene Mihoces, 4900 Third St., Versailles Boro, McKeesport, Pa.

WANTED: Lionel Magazine, all issues; pre'25 Lionel, pre'32 AF, All Ives catalogs. John T. Welly, 209 Cushing Ave., Dayton 9, Ohio.

WANTED LIONEL catalogs from 1935 thru to 1953. Melvin Frankel, 118 S. 11 St., Terre Haute, Indiana.

WANT AF 370A power car, also 3 light posts for Lionel Terrace 129A. Swap Lionel. All letters answered. John R. Koch, 5 Main St., Joliet, Pa.

TRADE OR SELL: $70 worth Auto mobile mags for HO equip or cash. Mags in good cond. R. J. G., 640 Stoker Drive, Saginaw, Michigan (In future we will not print any ads without name. Your name isn't anything to be ashamed of. And no ads are accepted for any club. All ads must be from indiivduals Ed.)

SELL OR TRADE: Penn sw., Globe unpowered AB units. 3 Athearn pass. 1 pr CV sprung trucks, UP decals for swit, etc. Want diesel or steam loco equal value. Ray Harko, 9000 Tioga Ave., Cleveland 5, Ohio.

TRADE OR SELL: Mantua Pacific $14.00, Mantua Mike $16. Excel. Trade for old time engines, rolling stock in HO. Ward Barcafer, 9061 Fir Drive, Denver 16, Col.

WILL PAY $400 for Ives 3245 St. Paul type standard gauge loco in good condition and original paint. Also want std gauge pass cars, all makes. Robert T. Hess, Basking Ridge, New Jersey.

TRADE 8 mm Kenystone projector, RME 69A HF rcvr, 5 tube 20, 40, 80, 160 meter TRF rcvr Want HO locos, cars, track, etc. Details write. E. R. Stoaddard, 1380 Main St., Agawam, Mass.

EXCHANGE expert guaranteed watch repair for TT stuff. Send watches insured mail and when returned, send me your selection of cars, track, scenery, anything. R. E. Graddy, 13315 Emporia, Houston 15, Texas.

SALE OR TRADE: 2 sets Mantua Mike castings (boilers, cabs, tenders, etc.) for what have you? Ans. all queries. M/Sgt Reese, Rte B Box 485, APO 953, San Francisco, Cal.

SELL OR TRADE: Lionel 2026 loco, 6 cars, acc., trans. Sell to highest bidder over $35 or swap for HO power pack, cars, track, loco. No. 0-4-0T T. Cherry, 2121 Genesee St., Buffalo 11, N. Y.

WANTED: HO ga layout in good cond, for cash or trade for Nazi souvenirs or WWII money collection. All replies ansd. H. Walker, Box 1, Los Alamitos, Cal.

SELL OR TRADE: Exc cond. HO steam locos, cars, switches, etc. $1400 value. Sell or trade for Lionel std. gauge. W. G. Weiner, 2711 Nottingham Rd., Bethlehem, Pa.

WANT: TOY TRAINS mag No. '51, Mar. '52, June-Oct. '52. State price, cond. Jack Keen, 1229 Bonsella, Walla Walla, Wash. (A few more Mar. '52 issues were recently found and will be sold first come, first served. 50c ppd. Ed.)

TRADE OR SELL: AF HO set: hudson, 3 pass cars, 8 frt. $60 value. Highest offer over $20 takes. Want TT. David Moyen, 422 Woodside Ave., West Lawn, Pa.

TRADE: Athearn RDC exc cond, 2 Atlax Xovers, No. 4 turnout, No. 6 turnout, 6 sw machines. Want Mantua pacific. Ray Hampton, 316 N. Lake Ave., Spring Lake, Mich.

FOR SALE: Cars, engs, ass., for Lionel. List for stamped addressed envelope. Wm Tuohy, 28 Kent St., Westfield, N. Y.

WANTED LIONEL 773, brand new, 2 with tenders. John F. Milius, 69 Lackawanna Ave., Swoyerville, Pa.

WANTED: AF Zephyr 9900 O gauge, any condition. Write stating condition, price. Lawrence Hall, Box 445, RD 1, Bath Road, Bristol, Pa.

9" South Bend Lathe with accessories, $325 or trade for new refrigerator, and gas range. RAILROAD MODEL CRAFTSMAN 62 copies from 1939 to 1951. Write for list. F. C. Peterson, 711 Sangamon Ave., Rantoul, Ill.

FOR SALE: Fleischmann pacific, tank, elec locos. TMS, Hamo trolleys. English Diesel, snap track, catenary, pack. E. Felker, 2932 N. Clark, Chicago 14, Ill.

FOR SALE OR TRADE FOR TT: 259E Lionel loco, 248 loco, 9 cars, track, trans. Send for list. R. L. Mewhinney, 310 D Street, Bound Brook, N. J.

SWAP FOR HO: Viking Adventurer transmitter, Eico Multimeter 565, Hallicrafter S-38-D, ICA code course. Ed. De Santis, 69 Webster Ave., Jersey City 7, N. J.

WANTED: Marklin HO locos TP-800, RS800, ES800, good cond. Cash, ans. all letters. State price first letter. J. K. Jones, 217 Dabney St., Orange, Va.

TRADE MARX diesel, 7 frt, 3 pass, 2 trans, track, fair cond., for HO equip in good cond, or best offer. $55 value. Gregory Belireux, 130 Commercial St., Adams, Mass.

TRADE OR SELL: $75 US, foreign stamps, for HO equip equal value. L. Menakes, Box 147, Moodus, Conn.

TRADE TT 4x8 layout, pacific, dockside, A&B diesel, 21 cars, etc. Want S or O gauge. Milton Musser, Colden, N. Y. (scale or tinplate? Ed.)

SELL: Pr Lionel Auto-switches $12, Lionel Lampposts 85c each. Marx Xing flasher $1.50. Marx Xing Gate $3.25. Marx semaphore $1.98. All good cond. Jerry Marteney, RD 1, Malvern, Ohio.

TRADE OR SELL: Penn Line E-6 kit, Varney switcher, Mantua shifter. Want Hobbytown Alco switcher dual drive or Penn Line L-1 or I-1. P.A. Gregg, 2318 Stahl Rd., Akron 19, Ohio.

SELL: Asstd issues RMC, MRR, T&T, traction bulletins, other items, 1937-54. List. Carl Solheim, 5439 N. 54th St., Milw. 16, Wis.

WANTED: AF S gauge equip. Send lists and prices to R. T. Birk, 207 S. Dougherty, Ft. Bragg, N. C.

WANTED: Lionel O tinplate from 1935 on, prefer to hear from NYC and Westchester residents. Joe Levy, 307 W. 36th St., New York 18, N. Y.

SWAP Arvin 1650 watt fan forced heater for HO Graham Farish NYC hudson, Bowser pacific. Ideal heat for attic or garage layout. Will deliver in Brooklyn-Queens area. D. H. Miller, 69-30 62nd St., Glendale 27, N. Y. Apt. 4-G.

SELL Mantua goat $17.50, Mite and Bee $14 each, PCC $12.50. Kits. F. B. Sawyer, 321 Sterrett Ave., Birmingham, Ala.

33 pr Baker couplers 15c pr or swap for Main Line or Silver Streak reefers. All good cond. Ed. Fairman, 151 W. McMillan, Cincinatti 14, Ohio.

ODDS AND ENDS old tinplate. Complete sets to parts. Stamped self addressed envelope for rough list. A. O. Roth, 3401 Parkside Dr., Baltimore 14, Md.

SELL OR TRADE FOR HO: AF 302 Atlantic, cars 640, 642, 638, and 720 rc tracks. $20 plus postage takes all. Will trade for HO. Harvey Fogel, 2084 Creston Ave., Bronx 53, N. Y.

SELL Lionel 726 loco w/t, 2056 loco w/t, 22 curved and 17 str sec track. Mr. Charles Anstine, 1326 Michigan Ave., Monroe, Mich.

HAVE LIONEL Scout loco w/t, boxcar, caboose. Runs well, needs repaint. Sell for $10 or swap for good HO powerpack. D. M. Walters, 6030 Kennedy Ave., Cincinnati 13, Ohio.

STEAM TRAIN for sale, complete with track. Park size passenger carrying. Photos and details for $1, refundable. J. Murray, 33C Winthrop St., Rehoboth, Mass (Ah, but that we owned several acres to set up something like this. Ed.)

SELL OR TRADE FOR HO: Lionel and Marx 027 trains, acc and track. Write for list. James Simpson, 6522A Paramount Blvd., Long Beach 5, Calif.

SELL MARKLIN HO equip, locos, cars, etc. AF HO hudson AC type, HO brass track, List for stamped envelope. J. W. Arnold, 2782 Cuyahoga Falls, Ohio.

SWAP LIONEL AND GILBERT trains and acc. Want O tinplate Alco diesels and switchers. Send price and description. John Fulvi, 33 Silver St., Branford, Conn.

SELL LIONEL 0 4-8-2 w&s, auto barrel, log, cattle cars, crane, work caboose, 40 sec track, switches, trans. Highest offer. L. Krystynak, 1603 Marywood Dr., Royal Oak, Mich.

SWAP STAMPS, US mints, blocks, singles, for HO cars and locos. S. Fichtinger, 144 Pleasant Ave., Johnstown, N. Y.

TRADE JAPANESE "127" Suzuka camera, f:3.5 lens 1/150 shutter, like new, for Penn Line Mike kit or built. Camera $50 value. W. E. Hicks, Box 42, Huntingdon, Pa.

HAVE 14 pr AF link couplers new $7 lot or trade for HO loco. Trade Ansco Memo 35mm camera f:6.3 lens, case, etc., for yardhog or what have you. John Ahring, 840 Pershing, E. St. Louis, Illinois.

SELL 4 tanks, 10, 7½, 4 and 3 gal capy, fully equip sand, plants, rocks, 2 hatrs, thermostats, pump, filter. Value $150. Want HO equipment. Art DeStephano, 360 Sherman Ave., Elmhurst, L. I. (Fish tanks, no doubt. Ed.)

FOR SALE: Globe A&B, A Lindsay powered. Defective pickup easily fixed. $10. Clark Hampe, PO Box 163, Glenham, N. Y.

TRADE Lionel 027 equip exc for 8mm movie camera or HO engines in good cond. David Yoder, 508 East Washington, Marquette, Mich.

WANT STD GAUGE, Lionel locos, cars, track, any condition. State price and what is wong or missing. Lew Roschen, 205 Clarendon Ave., Pikesville 8, Md.

WANTED: Lionel scale 700 tender. Must be in good condition. Vincent Silletti, 1253 Tabor Court, Brooklyn 19, N. Y.

WILL SWAP new and used Australian stamps for HO items of equal value. Write preferably air mail. Dr. Moss, 189 Homer St., Earlwood, N. S. W., Australia. (Model rr equip is hard to get down under. Ed.)

SELL OR TRADE: Marklin trk, 20 curved 10c each or best offer. Dave Grady, 14019 Northfield Ave., Cleveland 12, Ohio.

TRADE TT FOR HO: pass cars 50 ft scratch bit shorties for el, various styles, hand painted lettered, no hardware, 2 boxcars, track, switches, HP trux. S. Seader, 101-01 67th Dr., N. Y. 75, N. Y.

WANT old beatup Varney locos and parts. Also Varney locos in good shape. No docksides or diesels. Keith Smith, 934 N. Fairview, Lansing 12, Mich.

TRADE STD LIONEL pass cars, 2-2 car sets, 2-3 car sets. Good cond. $5 per set in trade. Want other std gauge, catalogs. F. M. Hammett, 11 Cummings Rd., Newport, R. I.

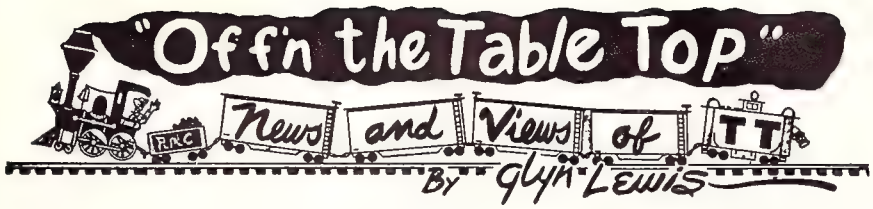
WANTED: Lionel 2330 2 motor GG1. State price, all letters ansd. Larry Boatner, Box 183, Anderson Pike, Signal Mt., Tenn.

NEW SCALE CRAFT O SP 4-8-2 No. 1 kit (frame and wheels), 2 rail, $15. New Walthers kits less trucks, 3850, 3860, 38'6, 38'6, $3 each. 3818 $2. Or trade for new O MU truck or trucks. Jack E. Stranger, 1424 S. Ash, Spokane 43, Wash.

SALE OR TRADE: Hornby 0-6-2T, 11 wagons, 2 psgr, Marklin 3 rail HO track and switches, etc, to trade for HO trolleys or $30 cash. Ivan W. Saunders, 472 Belonda St., Pittsburgh 11, Pa.

HAVE AF S gauge equip to swap for HO or sell. 1954-55. Send stamp for list. Basis for swapping list price. Valerian G. Ray, 287 Webber Ave., Lewiston, Maine.

WANTED: Several PCC and RDC cars for use on 3 rail scale or tinplate track. O gauge. Joseph W. Gillam, 5549 Romaine St., Hollywood 38, Calif.



ALL TTers will share our feeling of elation over the news that very soon, perhaps by the time that you read this, all brass cars will be available in TT. The first will be a high sided gondola, to be followed by tank cars, etc., etc. Many of you have been asking for this type of car for many a moon, and we are happy to say that our striving has borne fruit. New and much improved castings are on the way, and this is encouraging new switches! Not that the existing switches are bad, but it's always nice to know that you have a choice. We also have every reason to believe that new, lower priced trucks will soon be made available. Note from Kemtron, henceforth all Kemtron TT trucks will be equipped with plastic wheels. This should solve some of those insulation problems. Also from Kemtron, they are completely cleaned out of the free TT catalog. As it was rather expensive to produce it is doubtful whether more will be printed. However, all the TT items are included in the full Kemtron catalog priced at $1.00. Have you gotten the new enlarged H.P. Products "green" (1956) catalog yet? Goes for a dime.

From the TT Mail Car

This is a department we really enjoy, always good to hear from you, your plans, your gripes, your successes and if we're lucky . . . PHOTOS! For a starter here's a letter from Hyde Park, N. Y.

January 1, 1955

Dear Glyn:

I am just beginning to consider the hobby of Model Railroads and am now in the reading stage only. I got your name from the column. From reading your words, I realize you may be too busy to pay much attention to me, now or at all and I understand if I do not hear from you for some time. I can find room for an HO layout but have in mind the more elaborate one that TT could be.

My questions:

—Is the operational part of TT as good as HO? Do they run well, powerfully, stabily?

—I have not found any literature on uncoupling so do not understand it, but can such accessories be obtained for TT and are they as good?

—I am sure I can add detail if I so desire, so am not concerned if TT is a little less exact in appearance.

I know nothing at all about this subject and any advice or help will be sincerely appreciated. Do you possibly know any TT fan in this area, closer than New York, that I might be able to see and see him run his outfit?

Sincerely Yours
Mal Kinney
Hyde Park, N. Y.

Thanks Mal, never too busy to answer your questions . . .

1. In most cases yes, in power they exceed HO, as they use the same motors.
2. TT has automatic couplers. These are not to scale but are not unsightly, and work very well.
3. Detail is real fun in TT . . . it is easier in O gauge, but most TTers get around sooner or later to really fine detail on their cars and locos.

Good luck!

From Bound Brook we have the following . . .

Dear Mr. Lewis:

I am badly in need of some help. I am definitely interested in starting a TT layout and can't seem to get the necessary info from the local hobby shops. As a kid, I had my tinplate and about eight years ago did a little construction work in HO. I have not had the time available until recently to go into model railroading and I believe that TT would be the most satisfactory in my case as my work may necessitate moving every two or three years. I am a school principal and the advancement in this field very often requires changing ones employer to move on to the better jobs. Size can be darn important when moving.

What I really need are the names and addresses of the Manufacturers and suppliers of equipment so as to procure information prior to purchase. Perhaps because of my background, I want to study the available materials for a more satisfactory purchase. Of the three Model Railroad magazines that I have come in contact with, RMC is the only one that has anything worth looking at in the area of TT.

Any help or info you could supply me would be greatly appreciated.

"Dick," name withheld.

Well, Dick, the early part of this column will answer your question.

O GAUGE

50 Ft. D&RGW double wood sheath auto car. Sides painted and lettered, round roof, metal ends. Two door sizes: 10 ft. or 12 ft. Less trucks.

D&RGW 8800-10 $6.50
D&RGW 8800-12 $6.50

Dealers write

ZIMMER SCALE MODELS
4321 N. Mason Ave. Chicago 34, Ill.

NEW! TROLLEY SEATS

C-460 Rattan, for city and suburban cars, doz. $1.50
C-462 Interurban type, doz. $1.75

O Gauge. In Hobby Shops.

WAGNER CAR COMPANY
59 Euclid Ave. Cincinnati 15, Ohio

MODEL RAILROAD SUPPLIES EXCLUSIVELY

Hi Quality MODEL DISTRIBUTORS

We Sell Wholesale Only
7655 Melrose Avenue Los Angeles 46, Calif.

TT Catalogue

Complete stock of all TT items.
We pay all postage and insurance costs on all orders in U. S. A.
New 1956 catalog — 20c

ROBERT MCMINIS
221 Ralph St. Belleville, N. J.

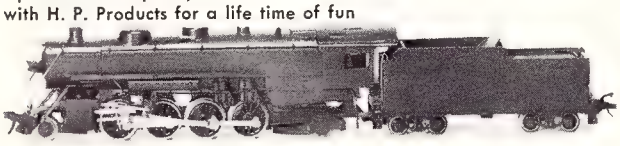
TT NOW IN EASTERN CANADA

ALL H.P. PRODUCTS AT U.S.A. CATALOGUE PRICES

W. H. McCORMACK MFG. CO.
289 Adelaide St. West
TORONTO — CANADA

H. P. HIGH PRECISION

H. P. Products are precision built of carefully selected materials chosen for the specific purpose and carefully machined for fine performance and long wear.
We do not make plastic toys but concentrate on well engineered and well built precision equipment that the true scale fan appreciates.
Never a compromise with quality.
Start in TT with H. P. Products for a life time of fun



The new A & B G.M.C. Diesels are in volume production as are the new Baggage-Postal-Diner-Coach-Pullman and Observation. Send for new literature 10c.

H. P. PRODUCTS CO.
BOX 350A
HARTFORD CITY, IND.

WAIT AND SEE THE MAY ISSUE
WHEN
BERGEN ELECTRIC & PRODUCTS CO.
INTRODUCES THEIR NEW
POWER PACER

BOOK MANUSCRIPTS CONSIDERED
by cooperative publisher who offers authors early publication, higher royalty, national distribution, and beautifully designed books. All subjects welcomed. Write, or send your MS directly.
GREENWICH BOOK PUBLISHERS, Inc.
Attn.: Mr. Yates 489 Fifth Ave., N.Y.C.

LIONEL TRAINS
WITH
MAGNE TRACTION
THE LIONEL CORPORATION • 15 East 26th Street • New York 10, N.Y.

TOM THE TELEGRAPHER
(Trade Mark) Patented
Only $2.95
A real 3 way Telegraph Instrument
No R.R. is complete without a telegraph
Send real code when train is running.
E-Z to learn code from your running train. Pat.
Herman Enterprises
P.O. Box 149 Copr. 1955 Villa Park, Ill.

IT MEANS BETTER HOBBY SERVICE FOR YOU

MODEL & HOBBY INDUSTRY MAGAZINE 1956 APPROVED DEALER

Dealer! for a free sample copy write to:
CRAFT, MODEL and HOBBY INDUSTRY
30 East 29th Street
New York 16, N. Y.

You should also try "Gandy Dancer," R.F.D. 2, Carmel, N. Y. Another catalog of help to you would be Robert McMinis, 221 Ralph St., Belleville 9, N. J.

Here is rather an odd request . . . Dear Glyn:

So far as your column goes it is excellent. I would like, however, to see more photographs of layouts in TT and read more articles such as the one on the Grubstake & Welcher.

As a graduate student I have no place for a layout and very little time to build anything. My own interest is in British prototype, particularly the Great Western in the early days of this century. The lack of parts forces me to scratch build to a large degree which is a help as far as finance is concerned. So far I have but a little goods stock and a few buildings. To me the research involved is one of the more fascinating aspects of modeling.

I have a few questions. Is there any TT rail available which is of the normal section and the proper size? Since most of the prototypes I like are quite small I am worried about motors. What is the story on the power unit of the Kemtron Thomas Flyer? Is this a normal 12v D. C. motor and would it have the power to pull say four or five four-wheel waggons? Also where can I get horses and waggon wheels for TT?

Thank you, I remain yours, etc.
Deacon Owings

Thank you, Deacon, for the kind words . . . If you are interested in British prototype in TT, you should get in touch with the Pritchard Patent Product Co., Ltd., Pecoway, Station Road, Seaton, Devon, England. They make rail and roadbed to British standards in TT. CCW Productions Bridle Path, Watford, Herts. England, have TT gauge kits for British coaches. We would not advise trying to adapt the Kemtron "Thomas Flyer," the motor is a integral part of the car. As for TT horses and wagons . . . Try John Marshall Associates , P. O. Box 3463, Bridgeport 8, Conn. who has some imported British horses, wagons, trucks (sorry, lorries), or E. S. Neilsen 509 5th Ave. Neilsen has TT wagon wheels, buggys, trucks, etc., etc.

Dear Glyn:

As a new convert to TT Guage I would like to express herewith my thoughts on a couple of things that have occurred to me since I started in TT. I wrote you not long ago about the Nickel Silver rail being utilized in turnouts, which would certainly make for highly authentic trackwork. I just can't and never could see the use of brass rail in model railroading, especially when such pains are taken to have all motive and rolling stock so finely scaled a la prototype. Brass is strictly for the birds, and as soon as some dealer comes out with pre-fab steel or nickel silver switches I'm going to be first on line.

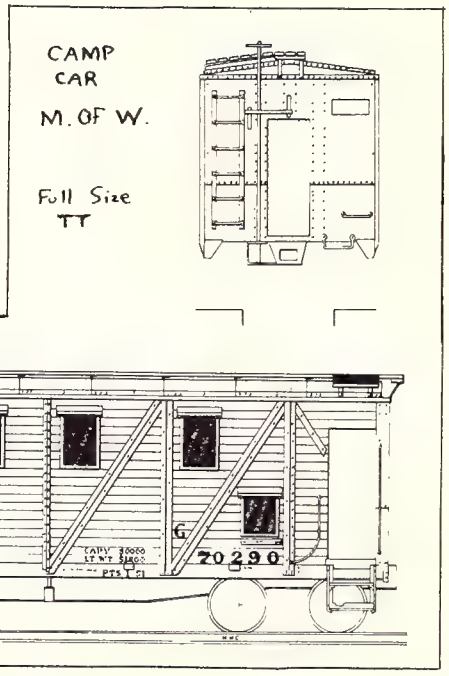
Also, it has occurred to me that none of the manufacturers in the TT line so far as I know make any sort of track trip for signalling or panel board use. Why couldn't Dancer or H. P. utilize a pressure clip which could be snapped over one running rail with just a hair breath of clearance, and thence hooked up to an independent AC or DC circuit. In this manner the clip would be under constant pressure from the weight of the train and could be used to control trackside signals and/or indicator lights on a panel board. I know that the clip would have to be insulated topside where the flanges of the trains closed over it, but wouldn't this be a simple matter to work out. Also I was thinking that unless such a clip were forced to hold a closure once the initial engine closed over it, until the train was entirely clear of the block, it would pop up between every car. I was thinking however that a given signal trip such as this could be set up so that it was also wired to the next block trip and a mechanism employed to hold closure until the next block was hit by the engine and so on all through the whole layout.

Donald H. Miller
215-67 Spencer Ave
Queens Village, N. Y.

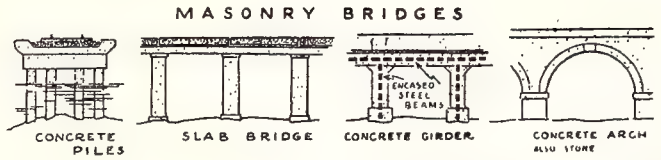
Thanks Don, sorry about the delay . . . heads will roll! It was worth waiting for tho! Well manufacturers, what do you think of Mr. Miller's ideas?

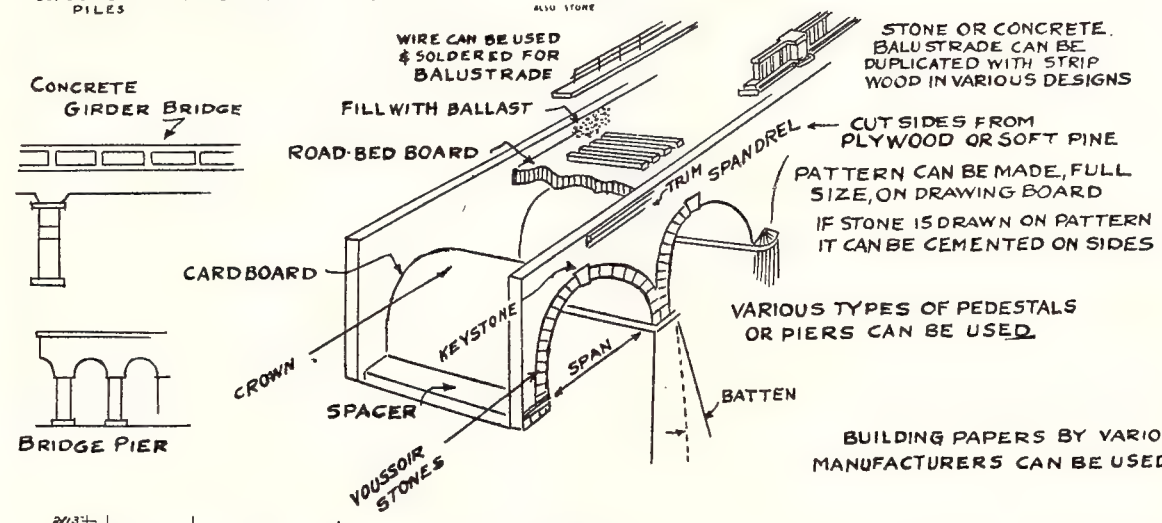
As you can see this month has been largely letters, we like to run 'em when we can . . . Next month, TT news, "how to's," TT plans, and TT photos.

CORRECTION: A couple of issues ago we spoke of Ace TTer, Bill Healion and referred to him as assistant director—oops—we meant producer, of the NBC-TV "Today" show.

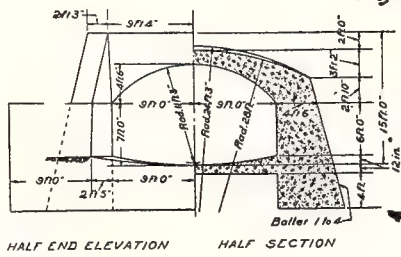


BRIDGES




CONCRETE GIRDER BRIDGE
BRIDGE PIER
WIRE CAN BE USED & SOLDERED FOR BALUSTRADE
FILL WITH BALLAST
ROAD-BED BOARD
TRIM SPANDREL
CUT SIDES FROM PLYWOOD OR SOFT PINE
PATTERN CAN BE MADE, FULL SIZE, ON DRAWING BOARD
IF STONE IS DRAWN ON PATTERN IT CAN BE CEMENTED ON SIDES
CARDBOARD
CROWN
KEYSTONE
SPAN
SPACER
VOUSSOIR STONES
BATTEN
VARIOUS TYPES OF PEDESTALS OR PIERS CAN BE USED.
BUILDING PAPERS BY VARIOUS MANUFACTURERS CAN BE USED

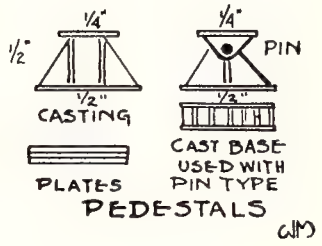
STONE OR CONCRETE BALUSTRADE CAN BE DUPLICATED WITH STRIP WOOD IN VARIOUS DESIGNS



BRIDGE OF CULVERT TYPE IN CONCRETE BUILT FOR BANGOR & AROOSTOOK R.R. (ATLAS PORTLAND CEMENT CO.)

MODEL CAN TERMINATE HERE

(DIMENSIONS-FULL SIZE)



PEDESTALS

CWM

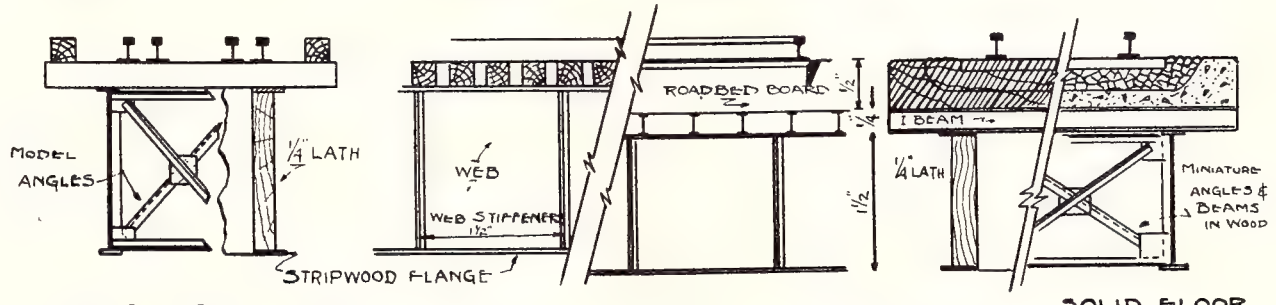
SIDE VIEW SHOWS LITTLE DETAIL BEYOND FLANGES, TIES & GUARDRAIL

I BEAM & CONCRETE OR I BEAM IN CONCRETE CAN BE DUPLICATED WITH ROADBED BOARD & TRIM

OPEN FLOOR

I BEAM BRIDGES

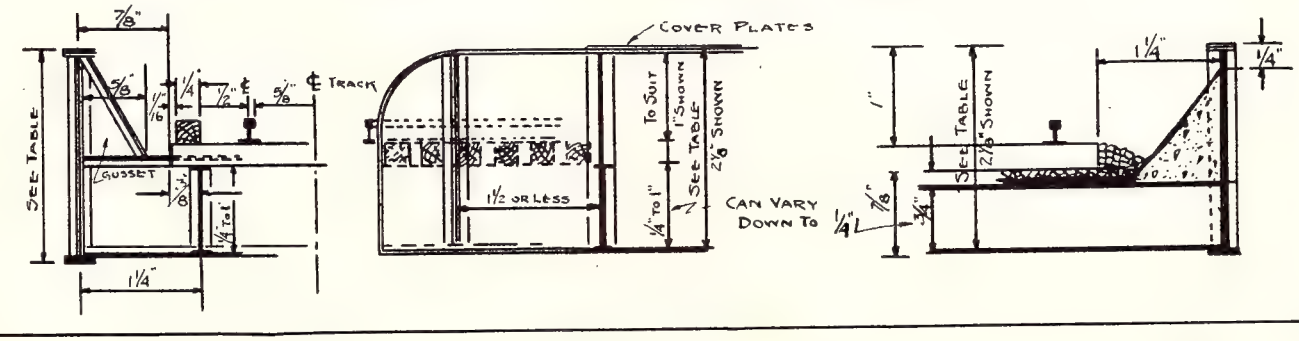
SOLID FLOOR



OPEN FLOOR

SOLID FLOOR

DECK TYPE - PLATE GIRDER



BACK ISSUES

NEW INVENTORY REPORT LISTS MANY BACK ISSUES OF "TOY TRAINS" MAGAZINE NEVER BEFORE ADVERTISED!

Toy Trains

complete Your Library

Toy Trains — **1954—9 issues** — **$3.50**

JANUARY
World War Motor Car No. 203 (Lionel)
Layout Blueprints
Easy-to-Build Grocery Store . . . & Hotel
Light Weight, Strong Tunnel
Working With Plaster
Tinplate Tricks

FEBRUARY
American Flyer's Loco No. 13
Wrecking Crane Construction
Build A Cooling Tower . . . & Wooden Trestle
Old-Time Passenger Cars
Waterways and How to Use Them
Turntable for S Gauge

MARCH
German Bing Toy Trains
Adding Detail to Plasticville Stations
Basic Layouts for O & S
Interchanging Lionel & AF Accessories
A Town From Rural America
How to Build Passenger Cars

APRIL
Check List of Scenic Materials
Layout Design Pageant
RR Oddities
Flat Car Loads
Operating by Card Orders
How to Organize a RR Club

MAY
Model RR Races
Portable Weatherproof Pike
Build A Covered Bridge
Completing Your Scenery
Build Your Own C.P. Huntington
Foot Bridge

JUNE
Build Your Own Freight Cars
Detailing A Plasticville Ranch House
How to Build Miniature Structures
Trackwork Maintenance Shed
Detailing A Coal Loader . . . & Passenger Cars
Easy Way to Build A Bobber

JULY
Toy Train Travelogue
Easy-to-Build Signal Tower
Tools and How To Use Them
Automatic Crossing Gates
Tricks With Track
2-Story Plasticville House

FALL
Table Top Railroading In O Gauge
Easily Built Switching Locomotive
Arizona Central R.R.
Wiring and Lighting
Building a 4-4-0 Camelback Loco.
How to Draw Layouts

CHRISTMAS
105 Layouts
How to Build a Round House, Barn, Log Cabin, & Ice House
R.R. Station Cut Outs
Tricks to Make Your Trackage Look Real
Introduction To Plaster Scenery

Toy Trains — **1953-11 issues** — **$3.50**

JANUARY
Hamm & Burger Sausage Works
One Evening Balsa Projects
Build a Railway Cannon
Wiring a Two Rail Layout
Bilgewater Office Building
Toy Trains Picture Pageant

FEBRUARY
Repainting Passenger Equipment
New Ways to Build Your Railroad
Miniature Ai craft Beacon
Easy to Build Food Market
More Fun with Switches
Model Trackside Warehouse

MARCH
Practical Ways to Build Lift Bridges
Inexpensive Model Railroading
Miniature Fuel Dealers Yard
Rapid Transit Car for Beginners
A Miniature Tool Works
Improving Trucks & Couplers

APRIL
A Complete Industrial Area
Double Deck Section House
Remodeling a Lionel Scout Loco
Build this Tank Car for $1.00
Practical ABC's of Wire Work
A Complete Railroad in Sections

MAY
Layout and Design Forum
Build an Overhead Crossing
Constructing a Saw Toothed Factory
Signals: How to install and operate
Generate Electricity at Home
All Purpose Combination Control

JUNE
Here Comes the Model Circus
Depressed Center Flat Car for $1.00
Build a Miniature Power Dam
Engineer Control of Locomotives
Converting a Plan to a Railroad
Finishing the Tail End

JULY
Getting the Most from an AF Switch
Constructing Portable Scenic Units
Running Trains by Signals
How to Build a Wayside Station
Operating by Card Orders
Outdoor Railroading

AUGUST
Toy Trains Travelogue
Make Your Own Billboard Reefers
How to Build a Searchlight Car
Build Your Own Wye Switch
Easy to Use Momentary Contact Switch
Large Railroad Simplified

SEPTEMBER
Detailing Toy Train Cutouts
Operating a Permanent Layout
Model House Under Construction
Modernize Your Old Locos
Easy to Build Icing Facilities
Fold-away Model Railroad

OCTOBER
Building a 6x5' Layout
Table and Trackwork Construction
Electricity and Your Locomotives
How to Use the New AF Couplers
Expanding a Model Railroad
Building Junction City (4 Stores)

DECEMBER
Build a Work Train
Reworking Tinplate Track
Simple Electrical Repair Work
How to Plan and Build Grades
Christmas Time Trimmings
Detailing a Plasticville House

Toy Trains — **1952—3 issues** — **1951 —1 issue** — **$1.35**

JANUARY 1952
Miniature Lumber for Sale
Antique Auto Show
Decorating the Train Room
Building a Bulk Oil Plant
Miniature Fence Construction
Railroad Freight House

JULY 1952
Outdoor Model Railroading
Sandhouse for Your Pike
Restoring Old Cars
Post Office Cut Out
Jiffy Turntable
Sand & Gravel Yard

NOVEMBER 1952
How to Build Old Culverts
Station Cut Outs
Setting up a Snow Scene
Projects of Balsa
Bldg. a Miniature Hotel
Problems of Two Rails

DECEMBER 1951
Control of Lionel Switches
Miniature Zoo for your Pike
Extras for Christmas Time
Build an Old Stone Tunnel
One Evening Building Projects
Simplified Lighting of Houses

THESE BACK ISSUES OF TOY TRAINS HAVE NEVER BEFORE BEEN OFFERED TO RMC READERS

TOY TRAINS
BACK ISSUE DEPT. H
RAMSEY, NEW JERSEY

Please rush the complete sets of back issues as checked below. I enclose a check or money order for $..... in payment. (Please do not enclose cash).

☐ 1954—9 issues ($3.50)
☐ 1953—11 issues ($3.50)
☐ 1952—3 issues plus 1951 issue ($1.35)

NAME .....

STREET .....

CITY ..... ZONE ..... STATE.....

(Please print or type. If you do not wish to clip magazine, enclose your remittance with letter).

Localized Dealer Service

ARIZONA

Phoenix—Hamp's Hobby House
1147 E. McDowell Rd. AM 4-0332

Phoenix—Webster's Hobby Shop
521 E. Camelback Rd. AM 6-5343

CALIFORNIA

Alameda—Pacific Miniature Train Stop
1708 Willow St., Rear LA 3-5570

Burbank—Hobby Junction
834 Hollywood Way TH 8-1267

Culver City—J & M Hobby Supply
10770 Washington Blvd. VE 8-3815

EL MONTE

EL MONTE MODEL SUPPLY
Open Evenings 7-9 except Fri. & Sun.
11505 N. Pacific Ave. FO 8-9527

Glendale—Finley's Hobby Craft
340 N. Brand CI 3-9332

Inglewood—Hobbyland
1205 North La Brea ORegon 8-3611

Long Beach—Jiggs Hobby & Crafts
938 South St. GA 2-2349

LONG BEACH

Complete Stock of Model Supplies
Railroads — Airplanes — Ships
RAY'S HOBBY MODEL SUPPLIES
1222 American Ave. Long Beach 13

LOS ANGELES

Specializing in HO
Weekdays to 9:00 P.M.
A & P HOBBY CENTER
5701½ E. Beverly Blvd. UN 1-7523

LOS ANGELES

Model—Hobby—Craft—Magic Supplies
"Simply Everything"
Daily—Sundays 9 A.M.—9 P.M.
"COLONEL BOB'S"
3709 W. Pico at 4th Ave. L.A. 6

Los Angeles 43—Crescent Model and Camera Shop, 5348 Crenshaw Blvd.

LOS ANGELES

Railroads (all gauges)
Machine Work Railroad Repair Service
TROXEL BROS. MODELS
202 S. Western Ave. Los Angeles 4

Modesto—Hay's Hobby House
908 J. St. Phone 2-9340

Monrovia—The Model Mart
112 E. Lemon Ave. ELliott 8-7279

MONTROSE

Good Used Lionel
Customer Operated Layouts
Custom Built Railroads
American and Marklin HO
KNAPP'S
TRAINS & HOBBIES
2525 Honolulu Ave. CHurchill 9-7226

Oakland—Root's Hobby Hub
6036 Telegraph Ave. HU 3-4543

Palo Alto—Miniature Travels
3345 El Camino Real DAvenport 3-1514

Palo Alto—Palo Alto Hobby House
228 Forest Ave. DA 3-1993

Pasadena—Ace Model Shop
1655 E. Colorado St. Sy 3-6061

Sacramento—Hobbycrafts F. J. Locker
1616 Jay Street GI 2-1293

ILLINOIS

Bloomington—Harry's Hobby House
-02 E. Market St.

Blue Island; Scotty's
12661 S. Western Ave.

San Carlos—J & J Hobby House
1480 Laurel St. LYtell 3-5278

SAN DIEGO

FRANK "THE TRAINMAN"
Lionel, American Flyer Service
Model Railroading Exclusively
4310 Park Blvd. CY 5-1611

SAN DIEGO

Marklin Headquarters—Official Service Depot
American Flyer Authorized Service Station
Lionel Trains Repaired
Planes—Boats—Cars
GLENN'S TRAIN HOBBY
1125 G St. BE 3-5395

San Diego—The Whistle Stop
3819 Sixth Avenue CY 5-7340

San Francisco—Emporium, 835 Market

Santa Ana—Santa Ana Hobby Shop
1111 S. Main St. KImberly 2-6106

Santa Monica—Aero Hobbies
1319 Santa Monica Blvd. EX 5-0128

TORRANCE

Model Railroads—HO gauge a Specialty
Machine work and repair service
Custom Building Custom Painting
DORY'S MODEL SUPPLY
1307 Post Avenue FA 8-3768

COLORADO

Colorado Springs—Lemle's Roundhouse
2410 No. Nevada (Rear) ME 2-1969

Denver—Denver Hobby Shop
1524 Colorado Blvd. EA 2009

Denver—The Hobby Dep't. Store
1721 Stout CH 1059

Denver—The Hobby House
610 15th St. TAbor 1742

Denver—Model Hobby Shop
3018 W. 38th Ave. GRand 8121

CONNECTICUT

Bristol—Hobby Center
92 N. Main St. Phone: Ludlow 3-7273

BRIDGEPORT

Bridgeport's Only Authorized
Lionel & Amer. Flyer Service
Sales & Service for HO, O & S Gauge
Model Railroad Supplied
Connecticuts Exclusive Train Center
TRAIN EXCHANGE CENTER, INC.
631 Fairfield Ave. FO 8-2364

Hartford 12—Herb's Hobbies
637 Albany Ave. CH 7-2284

Hartford—Hobby Center
218 Pearl St. Phone 6-1482

Manchester—Hobby Shoppe
Center & Griswold Sts.

Middletown—Amato's Hobby Center
600 Main Street Phone DIA 6-7083

Newton; House of Flowers & Crafts
Newton Shop. Center

SOUTH NORWALK

Authorized Lionel & AF Service —
Model Railroad Supplies — Complete
Shop for Trains, Planes, Boats, etc.
"HOBBYLAND"
57 N. Main St. Tel.: Temple 8-6833

Torrington—The Model Railroad Shop
35 Water St. Phone 7001

Wallingford—Colony Hobby Shop
846 S. Colony Rd. Rt. 5 Tel. 9-2433

West Haven—Geo's Hobby Shop
625 Campbell Ave.

DISTRICT OF COLUMBIA

Washington; Superior Lock, 1410 L St. N.W.

FLORIDA

CORAL GABLES

Parts—VARNEY TRAINS—Service
Most complete parts stocks—Sudden service
Johnny Peek—Off'n the Seaboard
THE MODEL SHOP
219 Aragon Ave. HI 8-1837

Jacksonville—King St. Bicycle and Hobby
1249 King St. Phone 7-5855 or 8-4912

Miami—Bill's Hobby Shop
9028 N.W. 22nd Ave.

Miami—The Hobby Center, Inc.
3621 S.W. 8th St. Phone 4-9819

Orlando; Southland, 217 N. Main

TAMPA

EXCLUSIVELY RAILROADS
Largest Selection in the South
Open till 8:00 P.M.
CHESTER HOLLEY
3641 S. Dale Mabry Phone: 617202

West Palm Beach—Southland Cycle
3628-30 S. Dixie Hwy. Phone 5208

ILLINOIS

CHICAGO

Lionel train experts. Free catalog.
Free mailing on all purchases
A-ABART ELECTRIC CO.
1259 N. Ashland Ave.
Phone: ARmitage 6-6383

CHICAGO

Chicago's greatest stock of
Model Trains in O-HO-TT-S gauges
Parts galore in SHIPS—PLANES—
ARCH'I supplies
ALL NATIONS HOBBY SHOP
182 N. LaSalle St. Chicago 1

Chicago—Art's Cycle & Hobby Shop
816 E. 75 St. TR 4-4100

CHICAGO

"Everything for the Hobbyist and Sportsman"
Lionel and American Flyer Repairing
BEND HOBBY & SPORTS SHOP
5519 N. Lincoln SUnnyside 4-9140

Chicago; Brittain,942 W. 63rd St.
Chicago; Gross Radio, 6767 Stony Isl. Ave.

CHICAGO

Model Railroad Specialist
Transportation in Miniature
We Accept Mail Orders
HOLM'S HOBBY HOUSE, INC.
323A W. Madison St. FR 2-4343

Chicago—Mandel Brothers
State St. STate 2-1500

CHICAGO

Available Items for ALL Modelers
Trains—Planes—Boats
SIMONSEN MODEL SUPPLIES
3054 N. Greenview EA 7-1565

CHICAGO

Complete stock of kits and supplies for
TT, O, S, HO railroads, race cars,
boats, airplanes
TROST MODEL SHOP
3111 W. 63rd St. PRospect 6-1354

Cicero—Airplane Model & Hobby Shop
6129 Cermak Rd. OL 6-0224

E. St. Louis-East Side Hobby
2303 State St.

Galesburg; Ray's Hobby, 181 N. Cherry St.

Joliet—Walt's Hobby and Model Shop
60 N. Joliet Phone 6-1632

LA GRANGE

Model railroad, airplane boat kits, toys,
games, Lionel factory service station.
Open Monday, Thursday evenings.
LA GRANGE HOBBY CENTER
11 W. Calendar Fleetwood 4-1220

Libertyville; Taylor & Seiler
523-25 N. Milwaukee Ave.

Oak Park—Reyff's Toys & Hobbycraft
113 N. Oak Park Ave.

Park Ridge—Park Ridge Hobby Shop
30 Main St. TAlcott 3-4464

Rockford—Harry's Hobbies & Toys
508 7th St. Phone 3-4707

Rockford—Carney's
2501 Auburn St. Phone 2-9652

INDIANA

Evansville—The Toy Shop
1400 Oak Hill Rd. Phone 6-4859

Fort Wayne—Carroll's Model RR Shop
1215 Grant Ave. AN 3050

FORT WAYNE

"HO"-"O" gauge scale trains
Airplanes—Autos—Boats—Specialties
9:00 A.M. to 5:30 P.M.
DELUXE HOBBY SHOP
1220 E. Pontiac St. KEnmore 5054

INDIANAPOLIS

Trains—HO, Lionel and American Flyer
Planes, Crafts, Boats and Toys
Lionel and A F Factory Service
LES' HOBBIES AND TOYS
(Les' Repair Service)
4206 College HI 8925

JEFFERSONVILLE

Complete stock of kits and supplies for
TT—HO—HOn3—S—O gauge railroads
Small parts are our specialty
SCHIMPFF'S
347 String St. Phone 3-8975

KOKOMO

Lionel-American Flyer—HO-O Gauge
Planes — Race Cars — Boats. Repairing
Open 10 a.m. to 10 p.m. Sun. 1 to 5.
HOLLOWAY'S HOBBY HOUSE
825 S. Washington St. Phone: 2-5890

Michigan City—Community Craft Hobby & Toy Shop
429 Franklin St. PH 8-8282

Mishawaka—Bob's Hobby Shop
713 N. Main St. Blackburn 5-8111

IOWA

DAVENPORT

Everything in HO Gauge
Lionel, American Flyer
TRI CITY HOBBY CENTER
201 E. 2nd 3-4794

Mason City—Don's Train Service
609 Jefferson Phone 2401

Waterloo; Model Railroad Shop, 436 Center

LOUISIANA

New Orleans—Zula Fricks
413 Royal Street MA 6557

MARYLAND

BALTIMORE

The Complete Railroad Shop
All Gauges—And Parts
We Assemble We Spray Paint
LLOYD'S
Model Railroad Headquarters
2111 N. Charles Street

TO SUPPLY YOU WITH THE LATEST AND BEST IN MODEL SUPPLIES

Localized Dealer Service

MASSACHUSETTS

Arlington—Bancroft Cycle & Hobby Shop
1377 Mass. Ave. MI 3-7878

BOSTON
Boston's Oldest & Largest Headquarters
Model Railroad & Traction Equipment
Custom Painting & Lettering
BOSTON MODEL RAILROAD CO., INC.
665 Atlantic Ave. Boston, Mass.

BOSTON
Model Railroads Exclusively
Lionel-American Flyer-Marklin
Complete Line of HO
Home of Tremont 26 Switch
ERICH FUCHS
26 Tremont Street Boston

Greenfield; Howard's Model RR 424 Davis St.
Hyannis; The Hobby Shop, 538 Main St.

Lawrence—Modeler's Haven
288 Park St. MU 3-3322

NORTHBRIDGE
Model Railroads & Hobbies
Open daily, evenings—ALL DAY SUNDAY
20 minutes from Worcester
WAYSIDE HOBBY SHOP
N. Main St.—Route 122
WHtinsv'le 4-22-4

Taunton—Earl's TV & Hobbies
36 Weir St. Tel. 45341

WORCESTER
O. S. gauge scale A.F. HO & TT. Large operating layouts in HO & TT. Wire, Tools. Next to Post Office
Open Wed., Thurs., Fri., till 9:00 p.m.
HOCK & HOBBY
601 Main St. Tel 4-7047

MICHIGAN

Battle Creek—Barker Hobby Shop
33 Capital Ave., N.E. Phone 8-8211

DEARBORN
Your best source for HOn3, HO & O Gauge
Kits supplies, tools and books
Dearborn's finest hobby shop
We accept mail orders
11 to 7 Open Sundays
STAR HOBBIES
22005 W. Outer Dr. Ph. Logan 5-9670

DETROIT
Complete line HO Scale Model. Lionel & AF-approved Service Station. Block north of Tuller Hotel. 9 to 5:30. Monday to 9.
DOWNTOWN TRAIN & CAMERA SHOP
122 W. Elizabeth St. WO. 1-6932

DETROIT
EXCLUSIVELY MODEL RAILROADS
Books—Kits—Accessories
open daily 10 to 5; Monday till 6:30
TOM'S MODEL HOBBY SHOP
28 Duffield at Woodward
WO 3-3273

Grand Rapids—Merrill's Hobby Shop
1420 Wealthy St., S.E. Phone GL 68335

Jackson—Model Railroad Specialty Co.
1915 E. Michigan Ave. Phone 4-2572

Kalamazoo—Dick's Model Railroad Serv.
3307 Dearborn Ave. Ph. 2-6268
Kalamazoo—Hiler's Model Railroad Shop
712 Southworth Phone 2-8248
Royal Oak — Dunn's Camera & Hobby
610 S. Washington LIncoln 2-7366
South Haven—Irv Johnson's Hobby Shop
255 Center St.

MINNESOTA

MINNEAPOLIS
Minneapolis Handicraft Center
Specializing in HO trains
Mantua Service Station
GAGER'S HANDICRAFT
1024 Nicollet Ave. BR 6757

Minneapolis; House of Hobbies
8036 Minnetonka Blvd.

MINNEAPOLIS
The Twin Cities' only All-Gauge Railroad Source. Kits and Ready-to-run. Hours 10 a.m. to 5:30 p.m., daily except Sunday.
RAY'S TRAIN SHOP
55 South Fourth St. ATlantic 0786

MISSOURI

KANSAS CITY
HO-S and Lionel Trains
Planes — Toys — Crafts
Formerly Mission Scale Model Shop
BARR'S HOBBY SHOP
4611 Paseo LI. 9455

KANSAS CITY
Complete Sales & Authorized Service. Lionel-American Flyer-Marx Scale Equip.
SIEBER BROS.
404 Westport Rd. Kansas City

Maplewood—Hobby Chest
2728 Sutton

St. Joseph—Model Supply Shop
905 Frederick Ave. Phone 40785

SPRINGFIELD
Railroading exclusively—
Approved service
Trains, trackage, layout supplies and Accessories
Lionel—KMT—Amer. Flyer—Penn Line
MODEL RAILROAD HOBBY DEN
611 Fremont Ave. at Cherry
Phone 6-2543

Lemay—Swift Model Shop
788 Lemay Ferry Rd. AU 2466

NEVADA

Reno; Builders & Farmers Hdwr
1274 S Virginia St.

NEW JERSEY

BERGENFIELD
HO TRAINS AND ACCESSORIES
planes , boats, tools and fittings
Handicrafts—supplies and instructions
HOBBY CENTER
7 Palisade Ave. DUmont 4-3338

BLOOMFIELD
Bloomfield's Complete Hobby Shop, HO—S—TT—American Flyer Sales & Service
"JACK'S HOBBY AND CRAFT HOUSE"
735 Bloomfield Ave. Bl. 2-2887

CLIFTON
Model Railroad Specialists
Friendly, courteous service! Let us help with your Railroading Problems
CLIFTON HOBBYCRAFT
1241 Main Ave. Clifton, N. J.

ELIZABETH
America's Largest All Train Store
Specializing in O gauge
The famous HOBBY DEPOT, Inc.
274 N. Broad St. EL 2-7039

ELIZABETH
THE HOBBY CENTER
327 Morris Ave.
Elizabeth 3, N. J.
Est. 1933 Tel. EL 2-1622

HADDONFIELD
South Jersey's Headquarters for Trains
All Leading HO Makes—Amer. Flyer—A.M.T.—American Flyer Service Station
Open 10 a.m. to 9 p.m. Daily;
10 a.m. to 6 p.m. Saturday
HIGHWAY HOBBY HOUSE
Cor. King's H'way & Haddon Ave.
HAddonfield 9-6860

HASBROUCK HEIGHTS
Handling all scale gauges. Large parts stock. A.F. & Lionel
10 a.m. to 7 p.m. Wed. & Fri. 10 to 9
THE EASTERN MODEL RAILROAD CO.
169 Boulevard HASB 8-1838

JERSEY CITY
"HO"—TRAINS:—Kits & Accessories
Train sets ready to run
Models—Planes—Engines—Boats
THE HOBBY SHOP
2182 Blvd. HE 5-9883

PARSIPPANY
Authorized AF Service
Lionel—HO—AMT Trains
Open Sundays and Weekdays,
Evenings till 9 p.m.
RICH'S HOBBYTOWNE, INC.
Route 46 BOonton 8-2666

Maplewood—Osmun's
1 Highland Place Tel. SO 2-4714
Merchantville—Zane's Model R.R. Shop
201 Linderman Ave. Phone 8-2677-R
Parsippany—Rich's Hobbytowne, Inc.
Route 46 BOonton 8-2666
Plainfield—Craftsman Model Shop
300 Park Ave. Tel. PL 6-6089

RUTHERFORD
Rutherford's leading R.R. Headquarters TT, HO, S, O gauges
Lionel, Gilbert, Parts, Gargraves track.
PAUL'S HOBBY SHOP
306 Union Ave. GE-8-0192

Vineland—The Hobby House
25 N. 6th St. Opp. City Hall OX 1-1745

WESTFIELD
Kits and Supplies for
Railroads, Boats and Airplanes
Since 1939
CENTRAL JERSEY MODELS
Cor. North & Lenox Ave. Westfield

WEST ORANGE
Large selection of HO & TT Supplies
Planes—Boats—Motors
WILLOW HOBBY NOOK
25 Tremont Ave. West Orange

NEW YORK

NEW YORK
HO—Lionel—A.F.—Marklin-Sales & Ser.
Radio Control Equip. Planes—Boats—Crafts
Daily 9 to 9 Sun. & Holidays 11 to 7
HOBBY MART
Port Authority Bus Terminal
(Heart of N.Y.C.)
625—8th Ave. BR 9-5869

NEW YORK
Trains are our business—we have no sidelines. Authorized repair station. Mantua, Thomas, General Models, Lionel, American Flyer, etc.
MODEL R.R. EQUIPMENT CORP.
23 W. 45th St. JU. 2-2760-1-2

NEW YORK
Trains from the world over!
Accessories, parts & repairs, all gauges
World's leading hobby house. 5 floors
POLK'S HOBBY DEPT. STORE
314 Fifth Ave. at 32nd St. BR 9-9035

Brooklyn 1—Abraham & Straus
Dept. No. 661 TRiangle 5-720(

BROOKLYN
Authorized Lionel & American Flyer Service Station. HO scale kits and supplies. S, O gauge train accessories
BROADWAY HOBBYCRAFT
1638 Broadway Glenmore 2-8866

Brooklyn—L. Jaffe Hardware
8423-20th Ave. ES 2-9072
Brooklyn—Ray's Hardware Co.
120 Flatbush Ave. TRiangle 5-1552

BROOKLYN
Lionel, Amer. Flyer, O, S, HO, TT kits, accessories. GarGraves trackage—Layouts, Repairs. 9:00 a.m. to 10 p.m.
WALDELL HOBBIES
45 Newkirk Plaza ULster 9-0048

Bronx—Bronx Atlas Supply
412 East Tremont Ave.

BRONX
Authorized A.F. & Penn Service
HO Specialists—Repairs & Parts
Boats—Planes—Cars—Motors & Kits
"Foremost in the Field"
Long Island's largest hobby suppliers
THE CHESTER MODEL & HOBBY CENTER
1 Block South of Zerega Station
Bronx, N. Y.

FLUSHING
SKIPS
ISLAND HOBBY SHOP
"Foremost in the Field"
Long Island's largest hobby suppliers
177-03 Union Tpke. JA 6-7562

Flushing—Pleasure Mart Inc.
161-23 Crocheron Ave.

JAMAICA
Everything in Hobbies. All gauges. Model & Tinplate. Specializing in Repair work.
Daily 10 to 8 P.M., Sat. 9 A.M.-8 P.M.
Mon. & Fri. 10 to 10 P.M.
JAMCO
(Jamaica Co. Hobbies Inc.)
179-29 Hillside Ave. JA. 3-9140

Binghampton; Kern's Hobbies, 12 Court St.

BUFFALO
NEW YORK—BUFFALO
HO Headquarters
Lionel & Amer. Flyer—Operating HO pike
Open daily
10 a.m. to 9 p.m.—Closed Wed.
FRONTIER HOBBIES
3183 Bailey Ave. AMherst 8608

BUFFALO
Visit Buffalo's Pioneer Hobby Shop
For Models—Hobbies—Crafts
Open daily 9:30-5:30 Except Sun & Wed.
Open Fri. nites 'till 9:00
HOWARD E. RUTH
1466 Genesee St. TA 4126-1433

Freeport—Nassau Hobby Center
Nassau's Hobby Dept. Store
35 Church St.

TO SUPPLY YOU WITH THE LATEST AND BEST IN MODEL SUPPLIES

Localized Dealer Service

Patchogue—Handicraft Hobby Shop
156 W. Main St. PAtchogue 2193
Rochester—Carl's (HO) Train House
1310 Clinton Ave. N. COngress 47-06
Rochester—Erwin's Train Shop
30 Cambria Rd. CO 9468

ROCHESTER
SCALE—Tinplate, Lionel Factory & American Flyer
Approved Service. Manufacturers of Gargraves Trackage. Exclusively model railroading equipment.
"TRAIN DOCTOR" GARDNER
2261 Dewey Ave. GLenwood 2847

Rockville Center; Spiewak's Craft, 280 Sunrise Hwy.

NORTH CAROLINA
Charlotte—Johney's Hobby House
Fourth & Church Phone 44188

OHIO
Cincinnati—Westwood Hobby Shop
3332 Dartmouth Dr. GR 1-9777
Cleveland—Red's Hobbycraft
7804 St. Clair Ave. HE 1-0719

CLEVELAND
Nation's largest, most complete stock of all scale gauges, Lionel, AF Kits, Used, O & HO Custom Built—50,000 parts! Downtown Cleveland—Mon. till 9 p.m.
THE HOBBY HOUSE, INC.
800 Huron Rd. Cleveland 15, Ohio
Superior 1-3210

Cleveland; Paul's Bike & Hobby, 797 E. 152

CLEVELAND
Authorized American Flyer Sales and Service — HO — S — O
Daily 11 to 8 p.m.; Sunday to 2 p.m.
WEST 25th HOBBY and CYCLE
3166 W. 25th St. SH 1-2656

CLEVELAND
Lionel Specialists
Authorized Sales—Service—Parts
New and good used equipment
RIEDEL'S RAILROADIANA
1040 Babbitt Rd. & NYC RE 1-0240

Kent—Ed Beckwith Trains
235 E School St. OR 3-6661
Lakewood; Wings Hobby Shop 17114 Detroit Ave.

Middletown; Danny's Train Repair 200 Shafor
Niles—Harry's Hobby House
54 E. State St. OLympic 2-5292
Youngstown; Amer's Hobby Shop 1326 Market St.

PENNSYLVANIA
Altoona—Shelow's Hobby Supplies
1313 12th Avenue Phone 3784
Coraopolis—George Michael Hobbies—Toys
507 Mill Street AM 4-5520
Johnston—Westmont Hardware
Westmont Shopping Center

Norristown—Ned Salter
612 W. Marshall St. BR 5-3260
Philadelphia—Joseph B. Nagrant Hobby
3218 N. Bailey St. BAldwin 9-8714

PHILADELPHIA
Leading Hobby Railroad Center
Marklin Fleischman, Lionel, AF—Complete line HO kits, accessories
Authorized service station for all trains
NICHOLAS SMITH
60 N. 11th St.

PHILADELPHIA
PHIL EVANS—HOBBY CENTER
All makes trains and hobby supplies
Home of the unity—HO Model Engineers HO Club—Meets Wed—8:30 P.M.
4339 Frankford Ave. CU 8-7648

Philadelphia—Green's Hobbies
261 S. 52nd Street GR 6-3333
Philadelphia—S. F. Laurent
4903 Catharine St. GRanit 6-5506

PHILADELPHIA
Everything in HO-PLUS!
QUAKER CITY HOBBIES
620 Market St. LO 3-7465

YORK
All nationally advertised kits and supplies HO and S Gauge Specialists
Hours 1 P.M. to 9 P.M.
Sat. 10 A.M. to 9 P.M.
CHECKERED FLAG MODEL SHOP
602 E. Market St. Phone: 34589

PITTSBURGH
HO Scale Trains Model Supplies
Handicrafts—Greeting Cards
Schwinn Bicycles—parts—Repair Service
ASPINWALL HOBBY CENTER
351 Freeport Road STerling 1-7488

UPPER DARBY
TODD'S FOR TRAINS
Largest, most complete "HO"—Lionel—Am. Flyer stock in Phila. area. 17 Yrs. of successful model train sales and service—Open 10 A.M. to 9 P.M.
7036 West Garrett Road
(Terminal Square)

TEXAS
Dallas; Halls Hobby House
4823 Bryan St.—2267 Gus Thom. Rd.

AMARILLO
A Full line of Lionel — Am. Flyer — HO Trains — Auto, Boats, Planes — kits
Call anytime, day or night
SMITH'S HOBBY SHOP
3805 Tyler Phone: 2-5027

San Antonio—Jefferson Hobby Shop
206 Broadway CApitol 7-7632

WASHINGTON

EVERETT
Complete HO—TT—Planes—Boats
"Know-How"
EVERETT MODEL SHOP
(With Coy's Toys)
2605 Colby Ave. Cedar 1216

Seattle—Buzz & Doug's Hobby Shop
605 Pike St. MA 8699
Seattle; North End Hobby, 9524 Roosevelt

SEATTLE
NORTHWEST'S LARGEST HOBBY SHOP
Complete line of Trains—Airplanes—Ships—Racecars—supplies
Hobby Craft
Seneca 1234—The Bon Marche
Seattle, Wash.

WEST VIRGINIA
Spokane—Doc's Model & Hobby Shop
N. 1225 Monroe BR 2165

BELLE
Hobby Center for the Kanawha Valley
Trains Planes Crafts
Train Repairs Custom Building
BROWNIE'S
MODEL RAILROAD EQUIP.
2001 W. Riverview Dr. WI 92-385

WISCONSIN
Fond Du Lac—Friess Studio & Hobby Shop
27 N. Main St. Phone 5742
Neenah—Hobby Craft Shop
115 E. Wisconsin Phone 2-9191
West Allis—Garman Radio & Hobby Shop
8214 W. National Ave. GR 6-1412
West De Pere; Rabideau, 320 Main Ave.
Beaver Dam—Mac's Hobby Shop
226 S. Spring St. Dial Turner 5-5816
Superior—Andy's Hobby Shop
1715 Belknap Street

CANADA
Belleville; Doug's Hobby Shop, 338 Pinnacle
Brantford; The Hobby Shop, 51 George St.
Edmonton; Moro Craft, 10824-82nd Ave.

LONDON, ONTARIO
Model Railroad and Hobby Supplies
Planes — Boats — Cars — Hobby Tools, Special orders taken.
Hrs. 9-6; Eves. 2-3094
FRANK THOMPSON
MODEL SUPPLIES
347 Talbot St. Dial 2-3094

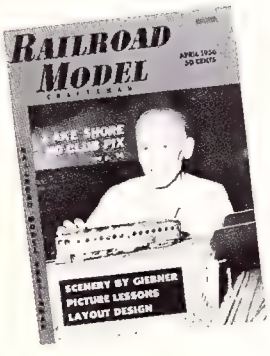
TORONTO
Scale Model Railroad Kits and Supplies
9:30—5:30 Daily—Friday 9:30-9:00
BURDEN'S HOBBY LOBBY
2311 Yonge St. HU 8-8880
114 Dundas St., W EM 6-3244

Help us To Help You!

If your local dealer does not stock copies of Railroad Model Craftsman each month or if he continually runs out before you can obtain your copy, send us his name and address. We'll make sure he receives a complete supply of Railroad Model Craftsman magazines each month, just as soon as they are issued. Put the name and address of your dealer on a post card and send to:

Circulation Department, Railroad Model Craftsman, Ramsey, New Jersey.

•



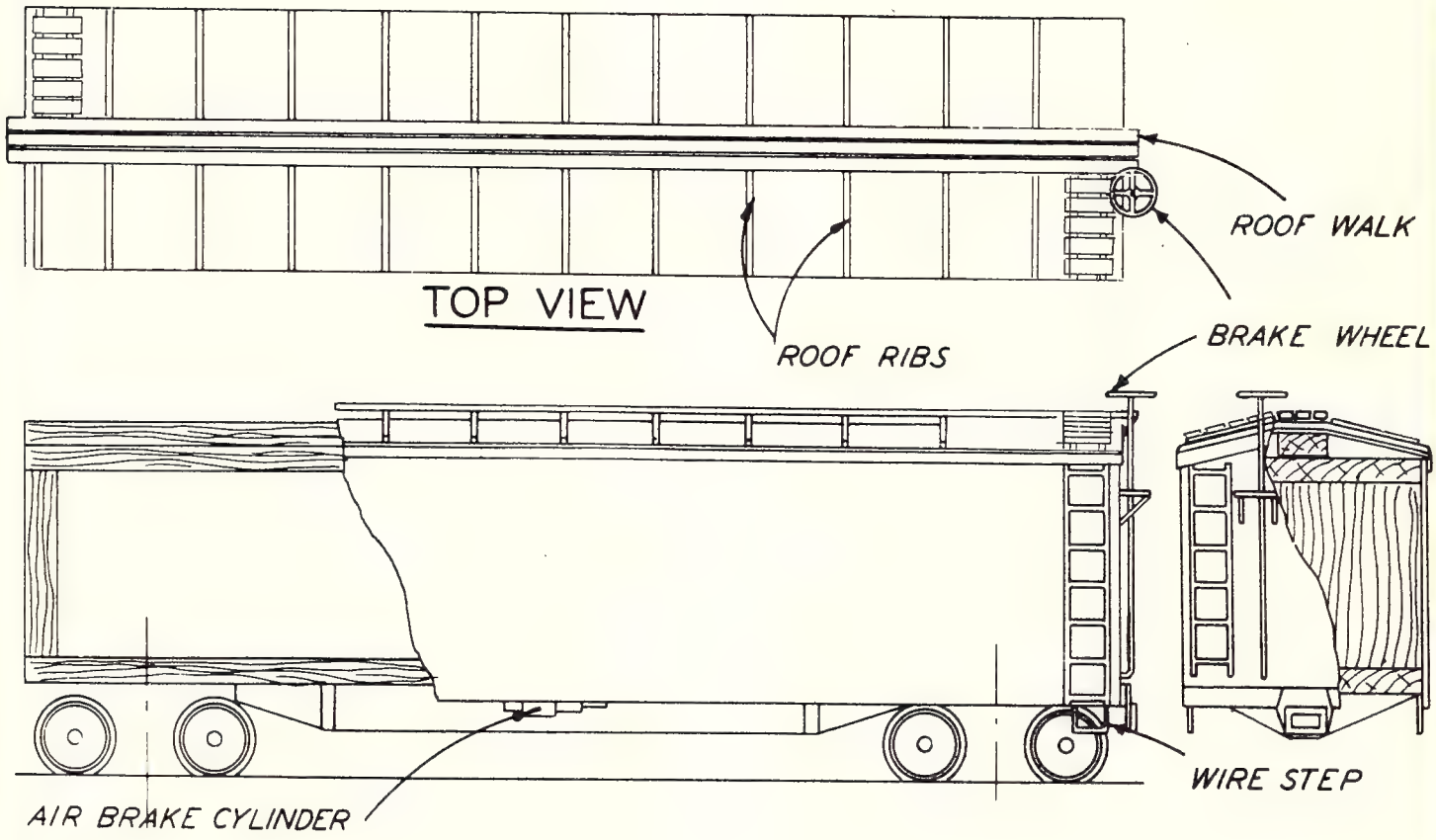
RAILROAD MODEL CRAFTSMAN

PATRONIZE YOUR LOCAL DEALER

TO SUPPLY YOU WITH THE LATEST AND BEST IN MODEL SUPPLIES

A BEGINNER'S BOX CAR

The plans show the simple assembly method used in building the HO beginner's box car. 1/8" wood is used for the floor and ends. The roof can also be made from the same stock, using a 1/8" by 1/16" spacer cemented to the center roof top, and then adding a cardboard sloping roof. Trucks, couplers ladders, grabirons; are all available from your hobby dealer. Two sets of HO box car sides, ends, doors, and roof walks are to be found on the back cover.



ADVERTISING INDEX FOR APRIL 1956

A
All-Nation Hobby Shop ... 8
America's Hobby Center ... 4, 5, 7
Athearn, Irvin ... 9
Atlas Tool Company ... 45

B
Baldwin Model Locomotive Co. ... 6
Bergen Electric & Products Co. ... 58
Bilt-Rite Models ... 50
Binkley Models ... 55
Blue Line ... 9
Bob's Hobby Shop (Mass.) ... 50
Bowser Mfg. Co. ... 12

C
Central Valley ... 54
Champion Decal Co. ... 9
Cliff Line ... 8
Corr's Nation's Hobby Supply ... 49

D
Delaware Valley Hobby Shop ... 9
Dorazio, Joseph ... 54

E
Fowler, Don ... 12
Frontier Hobbies ... 8

G
Gandy Dancer ... 55
Gardner, E. A. ... 9
Gary, Max ... 12
Greenwich Book Publishers ... 58

H
H. P. Products ... 57
Herman Enterprises ... 58
Herkimer Tool & Model ... 50
Hi-Quality Model Dist. ... 57
Hobby House Inc. ... 2
Hobby Publications Inc. ... 58

I
International Models Inc. ... 55

K
Kidder Ken ... 10

L
Leidner, E. C. ... 55
Lindsay Products ... 13
Lionel Corporation ... 58
Little Engines ... 55
Lobaugh Scale Model Co. ... 10

M
Maier, J. B. ... 13
Mantua Metal Products ... 13
McCormack Co. ... 57
McMinis, Robert ... 57
Model Engineering Works ... 55
Model Rail Depot ... 54

P
Pacific Fast Mail ... 12
Penn Publications ... 5, 11
Pittman Electrical Developments ... 10

R
Rossmoyne ... 50

S
Schopp, William ... 54
Selley Inc. ... 6
Special Shapes ... 8
Suckert Loose Leaf ... 51
Suydam, E. & Co. ... 10

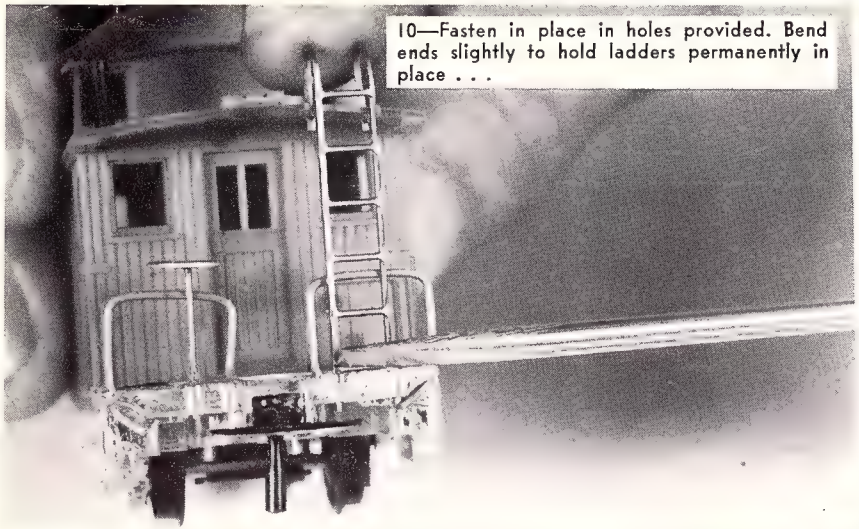
T
Thomas Industries Inc. ... 54
Trost Model Dist. ... 54
Tru-Scale ... 6

U
Ulrich, C. J. ... 52, 53

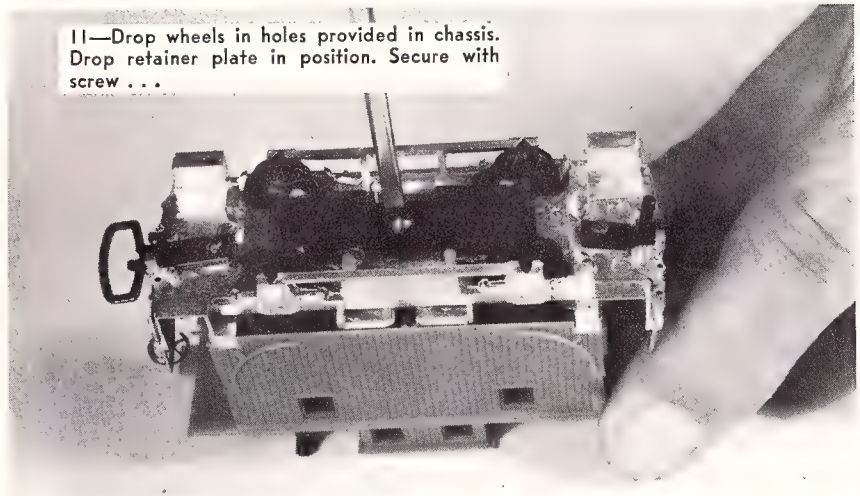
W
Wagner Car Co. ... 57
Wesley ... 54

Z
Zimmer Scale Models ... 55

CUT ALONG THIS LINE

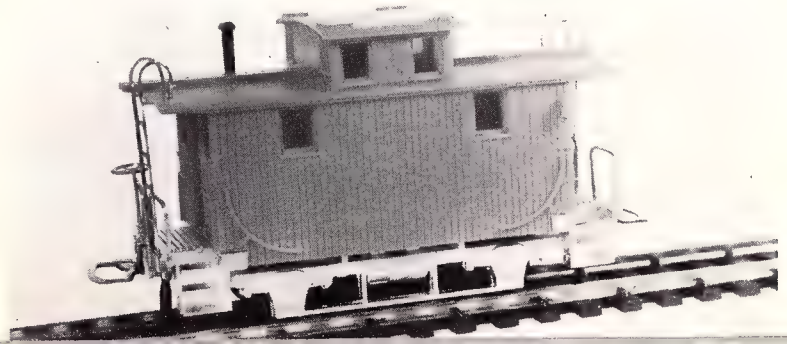


10—Fasten in place in holes provided. Bend ends slightly to hold ladders permanently in place . . .



11—Drop wheels in holes provided in chassis. Drop retainer plate in position. Secure with screw . . .

12—Here is completed car, ready to roll. Chassis should be painted black before assembling. Body is color molded red, requires no paint. Letter with decals to finish . . .



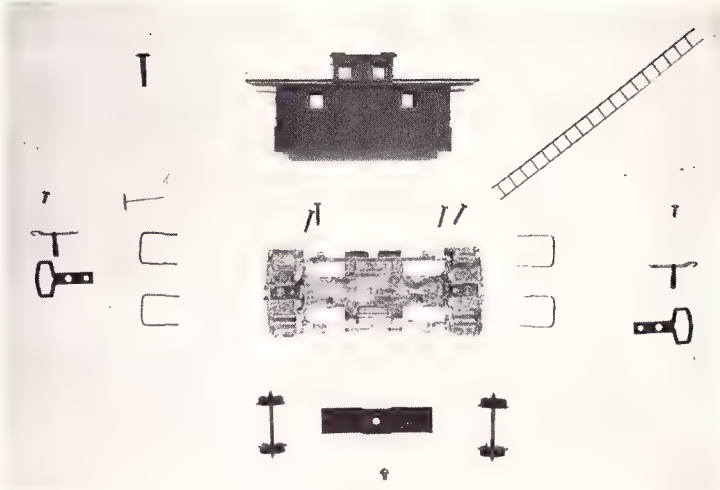
FOLD HERE AND PUNCH FOR BINDING

picture lessons in model railroading

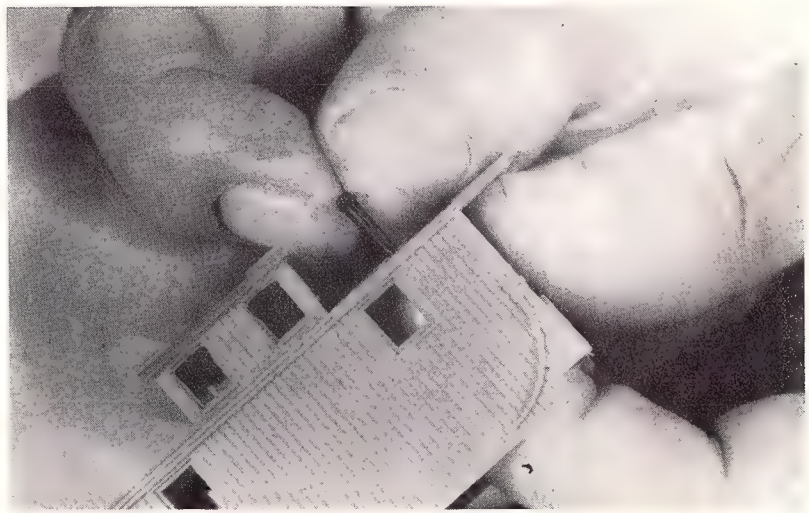
Assembling Mantua Reading 4-Wheel Caboose

RAILROAD MODEL CRAFTSMAN

course no. 5

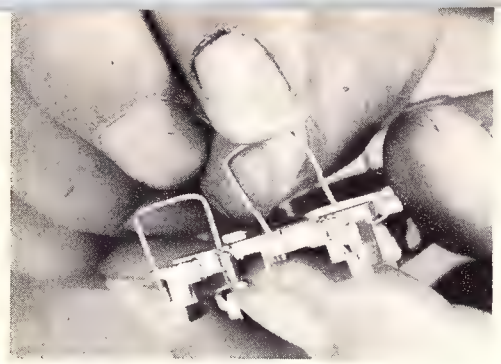


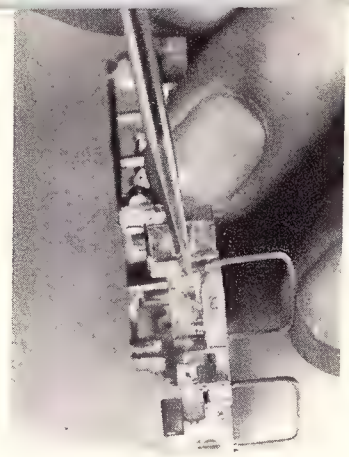
1—These are the parts supplied with the Mantua single truck caboose kit, laid out roughly in an "exploded" form. Assembly of this simple car can be completed by a beginner in less than a half hour, by an experienced modeler in 10 minutes or less . . .



2—Clean all parts with a small file, if necessary. Push stack into hole in top of caboose body . . .

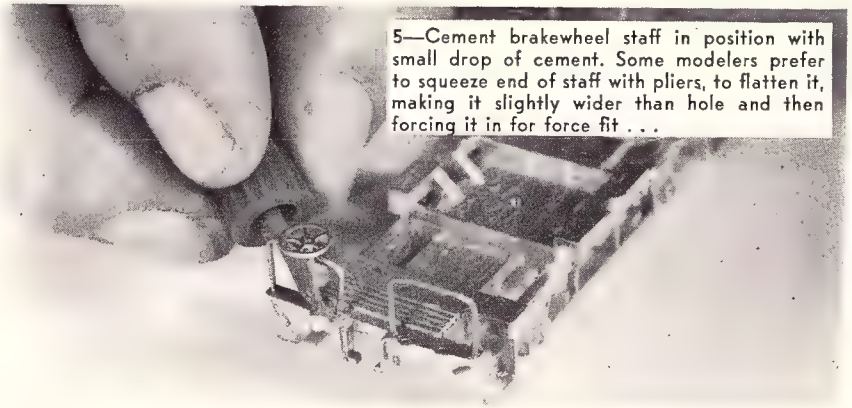
NON-REV CARS



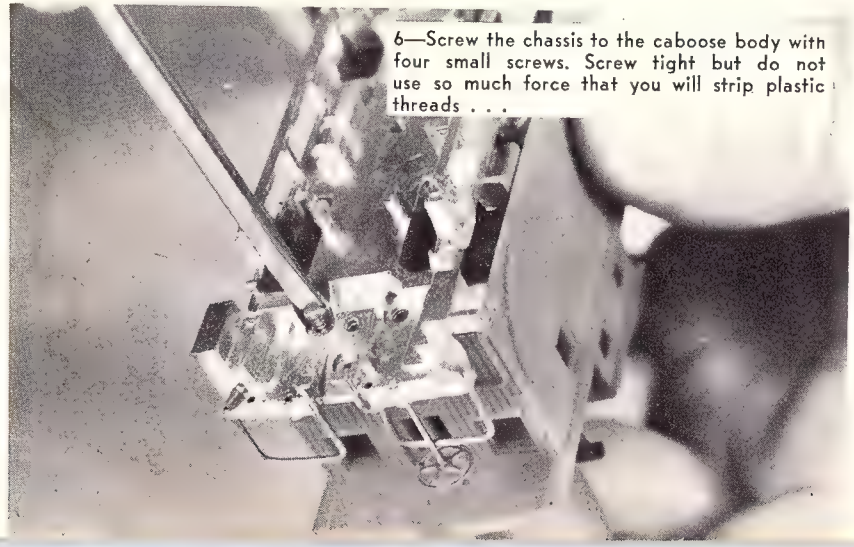


3—Insert hand rails into holes provided in end sills . . .

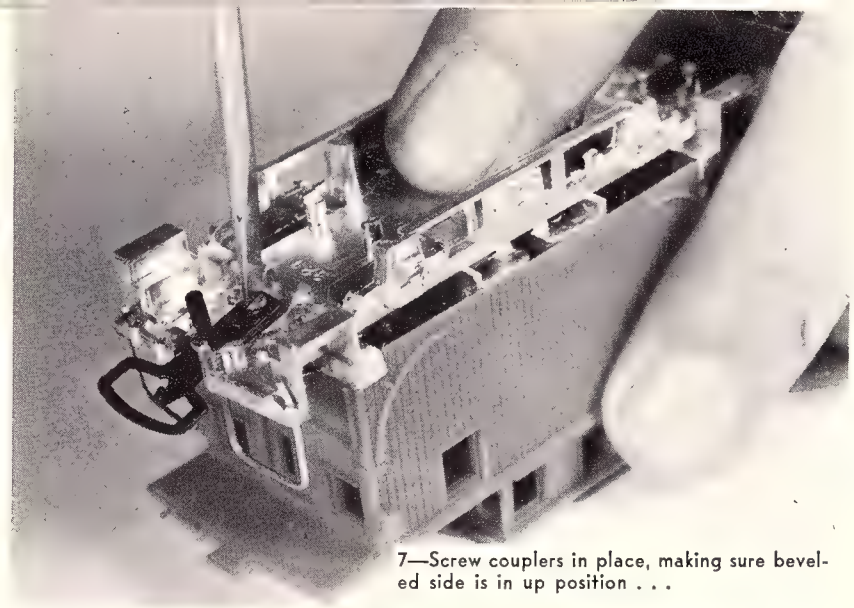
4—Bend ends of handrails with screwdriver as shown to hold them permanently in place . . .



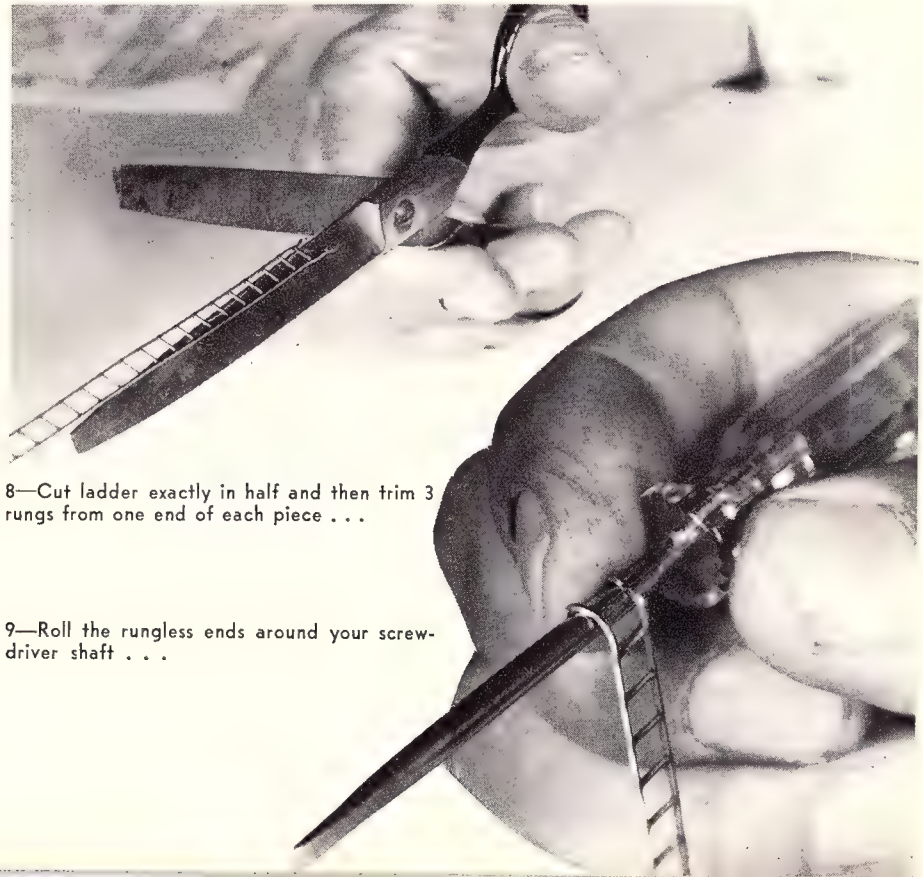
5—Cement brakewheel staff in position with small drop of cement. Some modelers prefer to squeeze end of staff with pliers, to flatten it, making it slightly wider than hole and then forcing it in for force fit . . .



6—Screw the chassis to the caboose body with four small screws. Screw tight but do not use so much force that you will strip plastic threads . . .

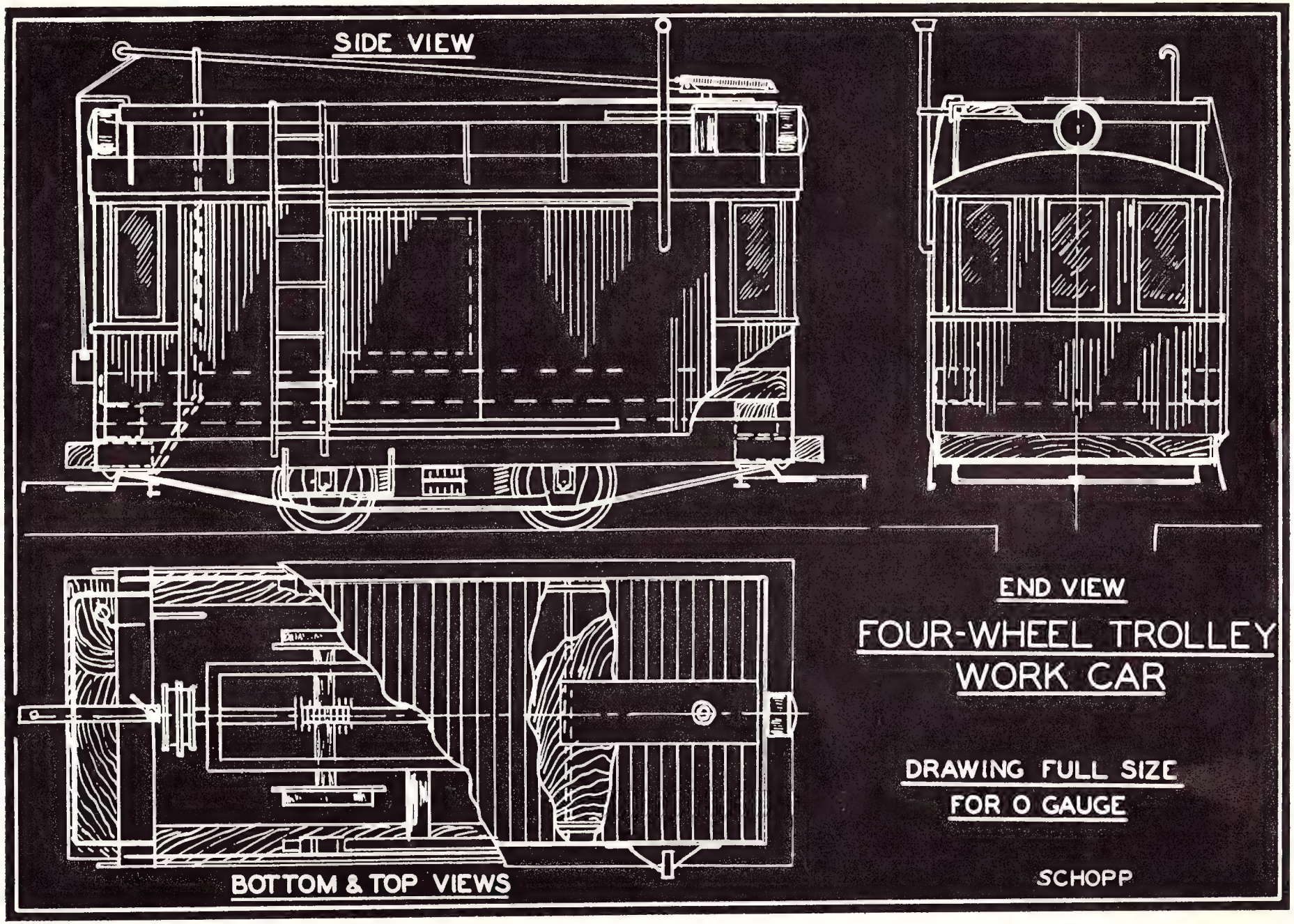


7—Screw couplers in place, making sure beveled side is in up position . . .



8—Cut ladder exactly in half and then trim 3 rungs from one end of each piece . . .

9—Roll the rungless ends around your screwdriver shaft . . .

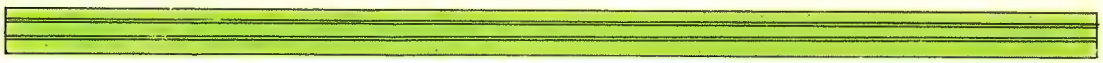

SIDE VIEW
END VIEW
FOUR-WHEEL TROLLEY
WORK CAR
DRAWING FULL SIZE
FOR O GAUGE
BOTTOM & TOP VIEWS
SCHOPP

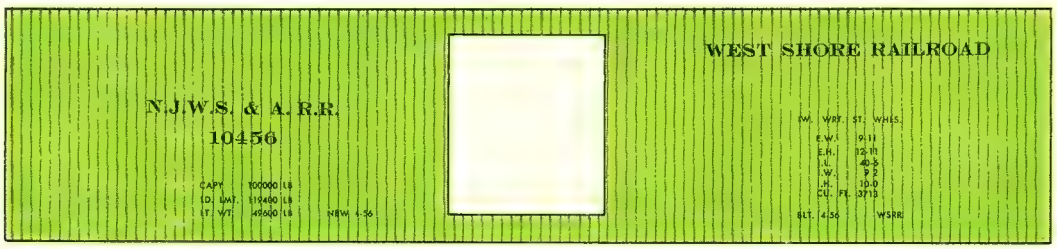
FULL COLOR HO GAUGE CAR SIDES

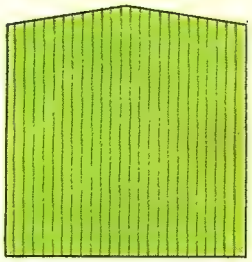
In answer to many requests, here are two pair of box car sides, ready for cementing in place on any 40 ft. HO gauge cars. We think that you'll find them handy for either rebuilding some old cars which you may have laying around or for use as sides on some brand new cars which you may care to build for this purpose. Plans for building a 40 ft. car are found elsewhere in this issue. Most dealers stock good supplies of HO parts for use in detailing these cars. Several model companies also offer car kits without sides, to which these sides may be directly cemented.

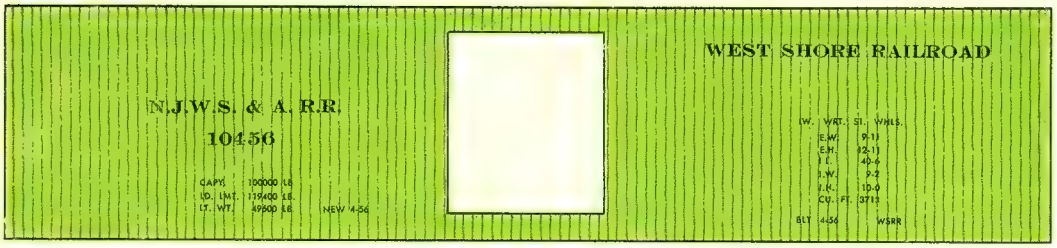
CAUTION: In cementing these sides to any car, avoid smearing cement on car sides as it will cause bleeding of inks used in printing the magazine covers.

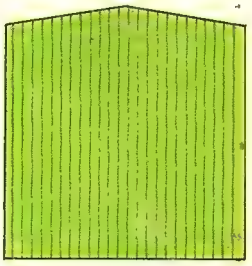
RAILROAD MODEL CRAFTSMAN

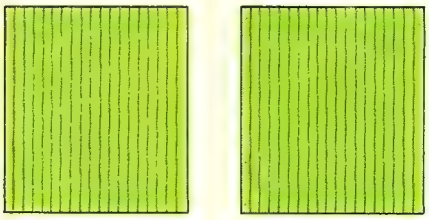


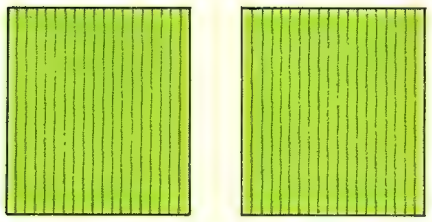




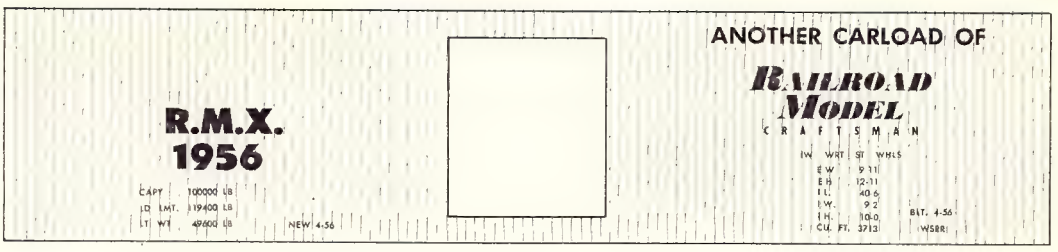


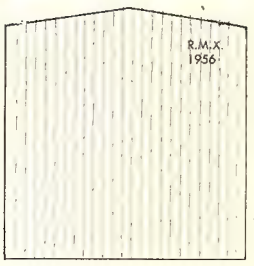


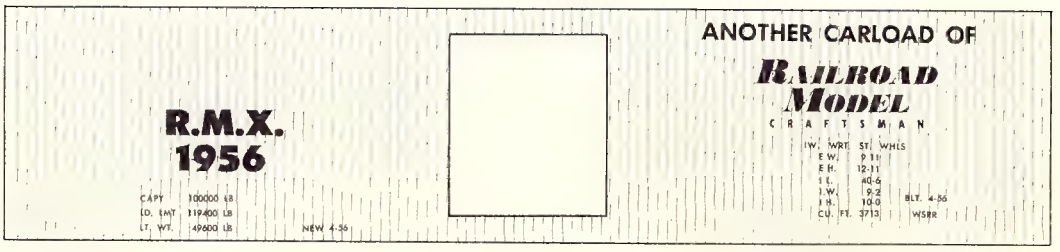


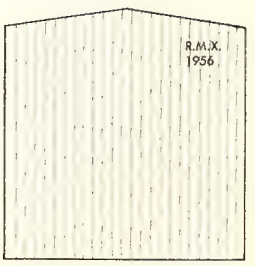


Hal Carstens
RMC 4-56









SPECIAL PREVIEW OF NEW 1956 RAILROAD PRODUCTS

RAILROAD MODEL CRAFTSMAN

MAY 1956
50 CENTS

BUILD OLD CHEYENNE

BLACK MOUNTAIN LINES

TROUBLE SHOOTING JUBILEE 4-4-4

STUB TERMINAL LAYOUT

Choose From the Nation's Largest, Most Complete Selection of Model Trains

Order with confidence at Hobby House — RENOWN THROUGHOUT THE NATION FOR FAST, RELIABLE, EFFICIENT SERVICE

SAVE at the Hobby House

Save! HO SPECIALS

CUSTOM BUILT HO LOCOS:

Mantua General 4-4-0, exquisite	$ 59.50
English 4-6-2 Pacific with V.G.	29.50
P&LE Berkshire from Mantua Mike	55.00
Mantua 2-8-2 Mikado, excellent	39.95
S.V. Bowser B&O Mountain with Tender	79.50
Walthers Shuttle Jack	29.95
Wnton C&O 2-6-6-6 Allegheny	179.50

Send for complete list of C-B Locos.

Gigantic Sale of HOBBYLINE Sets and Separate Items, All Brand New Merchandise with our 1 year guarantee.

Set 411 Lehigh Valley Diesel Switcher w/3 Lehigh Valley Passenger Cars, Track, Etc. 29.95	$19.95
Set of 3 Lehigh Valley Passenger Cars	9.95
Set 416 Santa Fe Diesel Switcher w/2 freight cars, caboose, track, etc. 24.95	18.75
Set 421 Chesapeake & Ohio Switcher w/2 freight cars, caboose, track, etc. 24.95	17.50
Set 440 0-4-0 Steam Switcher & Tender w/3 freight cars, caboose, track, etc. 29.95	22.95
Set 451 Erie 2-unit Road Diesel w/4 Erie Passenger Cars (green & gray) track, etc. 41.50	29.95
Set of 4 Erie Passenger Cars	11.95
Set 455 Union Pacific 3-unit Road Diesel w/4 UP Passenger Cars (red & yellow) track, etc. 41.50.	27.95
Set of 4 Union Pacific Passenger Cars	11.95
Set 456 Pennsylvania 2-unit Road Diesel (maroon) w/4 streamline passenger cars (silver), track, etc. 44.95	32.95
Set of 4 streamline passenger cars (silver)	13.95
Set 461 Same as Set 456 except Western Pacific silver & orange diesel. 44.95	32.95
Set of 4 WP Streamline Passenger Cars	13.95
Set 466 Western Pacific 2-unit Road Diesel, w05 freight cars, track, etc. 39.95	26.75
Set 467 Same as Set 466 except Pennsylvania. 39.95	26.75
HOBBYLINE 720 Power Pack only 7.95 with any of the above.	

LOCOMOTIVES:

Santa Fe Diesel Switcher. 16.00	12.95
Same Lehigh Valley or Chesapeake & Ohio. 16.00	11.95
2-unit Road Diesel—Pennsylvania, black. 20.00	15.95
2-unit Road Diesel—choice of Pennsylvania maroon, Union Pacific yellow & red, Erie green, gray or Western Pacific silver & orange 25.00	19.95
0-4-0 Steam Switcher & Tender. 20.00	16.95

SEPARATE CARS:

Cabooses. 2.95	1.99
Tank aCrs. 2.95	2.29
Hoppers. 2.95	2.29
Flat Cars. 2.50	1.89
Gondolas. 2.50	1.89
Box Cars. 2.95	2.29
ATHERN SET—2-unit Diesel, 3 Streamline Passenger Cars, track, Santa Fe or Pennsy. 29.95	24.95
Same w/dual-powered Erie diesel, 4 streamline passenger cars, track, Santa Fe or Pennsy. 34.95	28.95
GILBERT SETS with smoke and Choo-Choo, HO-320 0-6-0 Switcher Loco & Tender, 6 freight cars, caboose, track, etc. 52.50	42.50
0-6-0 Switcher. 32.50	26.50
4-6-4 Hudson. 39.95	31.50
PENN LINE SET. Midget Diesel Switcher, 2 freight cars, caboose, tpack, etc. 24.95	17.95
Penn Line Midget Diesel Kit. 24.95	17.95

FLEISCHMANN SETS

1325/3G 0-6-0 Tank Switcher, 2 freight cars, caboose, track, etc. 23.50	17.95
1365/7G 4-6-2 Pacific Loco and Tender, 6 freight cars, caboose, track, etc. 44.50	37.50
Fleischmann 503/10 Power Pack. 10.00	7.95

NEW HO BUILDING KITS:

Summit Fine Kits—Basswood, Interior Detail	
No. 101 Whistle Stop Station	$ 1.25
No. 102 Small Lunch Room	1.25
No. 103 Branch Line Freight Station	2.25
No. 104 4-Room House, Breezeway, Garage	1.95
No. 105 4-Room, 1½ Story House	1.75
No. 106 6-Room, 2-Story House	1.75
No. 107 Trackside Factory, Vintage 1920	2.95
No. 108 New England Church w/Steeple	2.95
No. 110 Modern 2-Bay Esso Gas Station	2.95

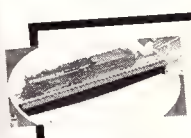
Model Hobbies All Wood Kits.

Branch Line Engine House, 1 stall	2.95
Coal Dock and Scale House	2.95
General Store Kit	1.75
Freight House and Platform Kit	1.95

All the old standby numbers in stock too.

HO CAR KITS:

Ribbon Rail Track Cleaning Car	4.85
Binkley New Haven Box Car	3.35
Binkley Pullman Palace Sleeper	4.95
Binkley Oldie Exposition Car	4.95



Operating TURNTABLE for LIONEL or FLYER

25¼" Long. With GarGraves Track. Operates completely by remote control. Rotation 360° in either direction. Wired and completely ready to run. Sturdy. Terrific . . . . . 29.95 Shipped by express. Send no postage.

SPECIAL TRACKAGE for LIONEL

GarGraves Flexible Track, 3' Sec.	.95
Same, Stainless Steel 3' Sec.	1.20
GarGraves Track Pins O or 027, doz.	.25
GarGraves Switches, Rt or L. ea.	5.50
Century Hi-Speed Switch, R or L.	6.95
Same, w/electric operation, entrir	10.95
Peare Brass Rail Switch Mounted on wood roadbed, R or L.	6.95
Peare Brass Rail Flexible Track 3' Sec.	1.65
Switch Machines: Make Switches Automatic: Hand Switch Controller (Stand)	1.50
Polaris. ea. 2.25 Lindsay. ea.	2.95
Switch Controllers: Operate Sw. Machines. Mallory Lever Controller (1.49)	.79
Toggle Switch SPDT Center Off Mom 5 for	2.88
Jiffy—Operates 7 Switches	2.25
Wood Ties to Match Lionel Metal Ties O or 027, Pkg. of 115 for	1.00
Track Mounting Screws, O or 027 3 doz.	.50
SOUND DEADENING PULP ROADBED: Put Lionel O or 027 Track on it. Specify. Straight Track, 2 sec. length	.20
Curved Track, 2 sec. length	.30
Grey Rubber Roadbed, str. or curved, sec.	.10
Cork Roadbed, 3' Curvable—"O" sec.	.60
Same for Flyer or 027, per sec.	.50
Over & Under Trestle Set—Hardwood, 10 pcs up, 10 pcs down . . . special	4.95
Rail Joiners, Rail, Spikes, Everything!	

SPECIAL TRACK for FLYER

Brass Rail on Flexible Tie Strip 3'	1.20
GarGraves Flexible Track 3' Sec.	.95
Same, Stainless Steel Track, 3' Sec.	1.20
Gargraves Switches, R or L.	4.50
Wood Ties to Match AF Track, Box.	1.00
Bob Peare Trackmaster Switches, Brass rail mounted on wood with Ties. Use with Flyer, GarGraves or Brass Track. R or L.	3.65
Tru-Scale Hi-Speed Switches, Same use, highest quality. R or L. ea.	5.25
Mounted Crossovers, Single, R or L. ea.	9.95
Plain Roadbed. Put Flexible Track on it. Send 3c for Inf.	
Switch Machines Above.	

BUILD KITS for Lionel

Easy to Build. Couples with Lionel.

No. 4700 Walthers Pickle Car	4.25
Trucks and couplers for above	1.75
ATP Metal side box car, superb detail, scale	4.25
Trucks & couplers for above 1.75 automatic	2.45

BUILD KITS for Flyer

Thomas All Metal Locos. Build for Lionel.

0-4-0 4 whl. Switcher, slope back tdr	29.95
0-8-0 8 whl. Switcher Kit w/tender	39.95
2-8-0 Consolidation Kit w/tender	39.95
Shawnee Express or Branch Line Locos	29.95

Every Imagineable Extra in the Reference Catalog for Lionel's.

Ambroid quality wood kits, super detailed, knuckle couplers.	
ACL Watermelon Car	5.95
AS, Southern, or MKT Stock Car	5.95
Winged Snow Plow Kit	6.95

NEW TOY THRILL FOR JR.
Your Youngster'll Enjoy Riding His

KID SIZE-RR

For Outdoors or Indoors.

Now, sensational, real railroading for boys and girls (3 yrs. and older)! **Child sits in, rides, and operates a streamlined diesel, powered by electric or gasoline motor (choice), or sits on and pumps a handcar 'round the track.** The reaction of kids to this train is really indescribable! Endless hours of fun. Train is fast enuf for fun, slow enuf for safety. Built to take it! Even Dad can ride on it. Top-Quality construction by Doepke Mfg.—of steel (no sharp edges), cast iron, oilite bearings. Plenty to add to the RR empire—extra track, switches (even small hands can manually operate 'em w/ease), 900 crossing, flatcars (to ride in-couple w/handcar or diesel), & diesels. Perfect for the yard or basement. Easy to assemble track, easy to take apart & move.

No. 2024 YARDBIRD Basic Set—28" Long, 12" Wide Handcar, 40 ft. of track (12 ft. diameter circle). Car travels along its own track, propelled by cranks. Chain drive. 8 cast iron wheels. No weight limit. 2-Tone blue w/red whls. (shipped express) **$39.95** Complete illustrated Doepke Info sheet Free.

EXTRAS FOR "KID SIZE-RR"

6025 Flat Car	$15.95
2033 Handcar	22.95
2031 R.H., 2032 L. H. Switches each	14.95
2027 Electric Power Diesel, 45" long (runs on 6 volt auto battery in cab)	225.00
2028 Gasolene Power Diesel (2 h.p. 4 cycle engine. Both diesels max speed—2½ mph	225.00
2034 900 Crossing	9.95
2030 4 Secs Track	11.95
2029 8 Secs Track	18.95

Quality, Scale BUILDING KITS

For Lionel, O scale or Flyer.
Easy to Build, Very Realistic: By Suydam.
Following are die cut corrugated metal:

No. 01 Furniture Factory—Fine Detail	5.95
No. 03 Northside Tool Factory—Fine Detail	5.95
No. 05 Black Bart Mine	3.95
No. 07 Trackside Warehouse—Fine Detail	5.95

And these have die cut wood parts too!

No. 010 Water Co. Pump Houses	3.95
No. 011 Roadside Sawmill	3.95
No. 061 Interlocking Tower & Shed Kit.	3.95

These are deluxe all wood kits:

Pine Bluff Feed Mill	5.50
Coaling Station. A Beauty!	8.95
Modelhobbies Cattle Pen	3.50
Modelhobbies Tool House	1.25

SALE! Plasticville BUILDINGS

BR-2 RR Trestle Bridge (1.00)	.79
SG-2 Signal Bridge	.79
LH-4 2-Story Colonial House (1.29)	.88
MH-2 1½ Story New England Rancher (1.29)	.88
FB-1 Frosty Bar (.79)	.66
V-10 Set of 10 Vehicles (1.49)	.98
CC-9 Parish Church (1.00)	.79
C-18 Beautiful Cathedral (1.98)	1.59
CS-5 5 & 10c Store, SM-7 Super Market, DE-7 Diner, DH-2 Drugstore (1.00) ea.	.79
BN-1 Countryside Barn (1.00)	.79
BY-4 Farm Animals (1.00)	.89
RA-6 Railroad Accesories Set (1.00)	.79
OH His & Her Outhouse	.15
Fence & Gate Set (.25)	.15
PB-8 Public Building Set (7.98)	6.98

SCENIC ACCESSORIES • All Gauges

More Scenery Info & Pix in Reference Cat. Where Choice, smaller items are for HO.

Trees, 3" to 5", 6 per box	.98
Trees, 5" to 8", 4 per box. Green shade, Orange, Apple, Cypress, Autumn, Spring, Snow or Assorted.	.98
Landscape Kits, 3" to 5", 19 pcs.	2.00
Landscape Kit, 5" to 8", 15 pcs.	2.00
Hedge, Green or flowered, 6 pr.	.98
Ornamental Flowers, 6 Assorted Bags.	.98
LYKEN—Green, or Mixed w/Rust, box. (To make own trees, bushes, hedges).	.98
Permascene, plaster for mts. bag	1.00
Landscape Sheets 50" x 18". Choice of Grass, Meadow, Earth, Cork, Ballast, Snow or Sand.	1.00
Same, 50" x 34", Meadow or Grass	1.75
Easy-Built Scenic Paper 2' x 5'. Mountain, Snow, Country or Valley). Beautiful Scenic Backgrounds. Colorful,	.50
21" x 41½" each. Farm, Town or Mountain.	
The 3 make panoramic background. ea.	1.00

For LIONEL and FLYER ONLY:

Tunnels—Sturdy, Colorful: No. 100 Straight 11½" long	1.00
No. 200 Straight 15" long	1.98
Grass, Bag . . . .45 Coal, Bag	.35
Ballast, Bag . . .35 Gravel, Bag	.35
Earth, Minerals or Snow, bag	.35
Steel Trestle Bridge	2.50
Set of 9 handpainted RR figures	1.98
Deluxe All Metal Signs R Figures: R150 Suburban Bus Stop Scene 7 pcs.	1.25
R 90 "O" Signal & Signs 8 pcs.	1.59
X 6-7 "O" Railroad Signs, 5 pcs.	.79
10 Colorful Buildings on heavy cord stock. PC Cutout Book No. 1	1.00
¼" Scale, Colorful, Metal 3 Unit Truck.	1.19
Dinky Toys Catalog, complete stock	.10

Main Line Pennsy N6B Caboose	2.95
Leaf Spring Truck for above	.85
Ulrich Piggy Back Cars Ready to Run, B&O, Monon, or S.P.	3.95
Robico Old Time Water Tank Car	2.25
Thomas 6-Dome Roma Wine Car	3.25

HO LOCO KITS:

Imported Rio Grande 2-6-0 Mogul	19.95
Imported Baldwin 1000 HP Switcher	19.95
Imported 4-6-0 Camelback 10-wheeler	24.95
Imported Old Time 4-4-0 American	15.00
Imported Santa Fe 4-6-4 Hudson	33.00

LIONEL at Special Prices:

A Complete Lionel Stock All 12 Months.

2028 Pennsy GP-7 Switcher (18.50)	17.50
2353 SF Twin Dsl. (2 motors—$50)	39.95
2358 Same as above—"Southern"	39.95
1022 Manual Switches (5.95) pr.	4.95
3469 Operating Dump Car (8.50)	6.88
362 Operating Barrel Loader (8.95)	6.95
450 Oper. Signal Bridge (6.95)	5.95
364 Oper. Lumber Conveyor (14.95)	12.95
110 Over & Under Trestle Set	5.95
1122 Auto. 027 Switches (13.95)	10.95
Auto. 027 Wide Radius Switches (10.95).	9.95
042 Manual Switches pr. (11.50)	9.75
760 072 Wide Rad. Track (.45) ea.	.35
736 2-8-4 Super Loco (43.50)	37.50
646 4-6-4 Big Hudson (37.50)	34.95
2338 Diesel Sw. w/Horn (2 colors)	25.00
41 Yard Goat Diesel Sw. (10.95)	9.50
30 Action Gang Car (7.95)	6.88
3562 Oper. Barrel Car (8.95)	6.95
6414 Auto Transport Car (8.95)	7.95
6415 3-Dome Tank Car (5.95)	4.88
6457 Lighted Cab. 2 couplers ($6)	3.49
6465 2-Dome Tank Car (4.95)	3.25
6464-50 M&StL Box Car (5.95)	4.75
480-25 Conversion Couplers ea.	.55
6462 Gondola w/barrels (4.95)	3.50
ZW Transformer (32.50)	28.50
Ribbonrail Track Cleaning Car	7.50

OPERATING HANDCAR OR TROLLEY
Both run alone. Section hands pump round track.
For Lionel or Flyer (Specify) ea. 4.95

AMERICAN FLYER Bargains

371 Silver Switcher (25.00)	19.95
372 Yellow U.P. Switcher	25.00
3745 GP-7 Twin Switcher w/horn	33.50
293 4-6-2 Loco w/smoke, choo	24.75
346 0-8-0 Switcher (40.00)	30.00
361 Diesel Billboard Horn (6.95)	5.95
No. 1 Car Assortment (4 Cars—18.95)	12.95
779 Oil Drum Loader (12.95) "Louie"	9.95
977 Action Caboose (5.50)	4.50
925 Tank Car (4.50)	3.95
923 Refrigerator Car (4.50)	3.75
929 Cattle Car (4.75)	3.95
928 Log Car (4.50)	3.75
945 Boom Car (5.95)	3.95
942 Box Car (4.50)	3.75
19B Transformer 300 Watt (29.95)	22.95
18B Transformer 175 Watt (26.50)	19.95
720A Switches Elec. (15.95)	14.95
Straight or Curved Track	.25
799 Talking Station (19.95)	15.95
Santa Fe 4-8-4 w/tender	179.50
4713 Sante Fe 3 Unit (55.00)	47.50
480 Silver Flash B Unit w/roar	14.95

Every item in stock all 12 months.

O SCALE

O CUSTOM BUILT LOCOS & CARS
2 Rail unless otherwise stated. Send for list.

Lionel 700 EW Super Hudson	$150.00
Lionel Semi-scale 763, short tender	95.00
Icken E6 Atlantic	275.00
Icken C&O, 2-10-4	695.00
Great Northern E7 "A" Pass. Diesel, 3R	75.00
Unpainted E6 Dual "A" Unit	125.00
R2 N.Y.C. Electric Dual	125.00
Saginaw H10b Pennsylvania	150.00
Scalecraft Mountain, 4-8-2	265.00
P&S Electric, uutside 3rd, lettered G.N.	100.00
C.N.W. Gas Electric	37.50
Monon or C.N.W. GMC Dual Switcher	39.95
Egolf Pennsylvania P5A	95.00
Alco Dual Pass. "AA" Units, unpainted	345.00
C&O H9, 2-6-6-6 Articulated	425.00
C&O Icken Mikado, 2-8-2	450.00

O LOCO KITS 2 OR 3R

Lobaugh UP Articulated 4-6-6-4	$196.50
Lobaugh C&O Greenbriar 4-8-4	146.00
F3 "A" Unit	29.95
F3 "B" Unit	24.95
"O" Alco Diesel	49.95
"O" GP-7	49.95
EMD F7	38.50
All Nation Pacific	49.95
Bucyrus Erie Wrecking Crane	76.50
0-8-0 or 2-8-0	42.50

O SCALE CAR KITS

Track Cleaning Car	$ 7.50
Wood Open End Combine	5.95
All wood Open End Coaches	5.95
Lobaugh Reefers, Gondolas, Tanks, Auto Cars—assorted ea.	8.95
Thomas 6 Dome Tank	5.95
J.C. Passenger Cars (assorted)	5.95

Complete Stock—Thomas, Gray, All-Nation, Lobaugh & Walthers Kits. And Loads of O Scale Parts.

GUARANTEED FAST, SAFE DELIVERY anywhere in the world
Your ORDER MAILED the SAME DAY It's RECEIVED!!!

BLUM'S
HOBBY HOUSE, Inc.
Dept. RMC-3
800 Huron Road
Cleveland 15, Ohio

Please send me:

I Have:
- ☐ HO Ready-To-Run
- ☐ HO Scale
- ☐ American Flyer
- ☐ Lionel O
- ☐ Lionel 027
- ☐ O Scale

I want Reference Catalog:
- ☐ HO Ready-To-Run 3c
- ☐ New Huge HO Scale Catalog, 35c
- ☐ American Flyer Bargain List 3c
- ☐ Champ Decal Catalog 25c
- ☐ Practical Guide to Model RRs 2.00

$ .....

$ .....

$ .....

$ .....

$ .....

Minimum Order on 3 ft. Track Sections.—6 Secs.

☐ Money Order (Use separate paper if necessary) Total .....

☐ Check Post. and Ins. —40c up to $10.00. 65c over $10.00 Free in Ohio.

Name .....

Address .....

City ..... State .....

☐ Enclosed $1.00 for Complete 256 Page Hobby Catalog. Refundable.

Our Huge Inventory is a legend to Model Railroaders everywhere!

LEONARD M. BLUM'S
HOBBY HOUSE INC.
We Will BUY or TRADE Your complete railroad

800 HURON ROAD **CLEVELAND 15, OHIO**

Vol. 24, No. 12 May, 1956

RAILROAD MODEL CRAFTSMAN

Including "The Modelmaker" (Est. 1924)
and "Miniature Railroading" Magazines

For All Model Rails

• THE CREW •

CHARLES A. PENN, *Editor and Publisher*

HAROLD H. CARSTENS
Managing Editor

B. M. HUMPHREY
Circulation Manager

ROBERT MacDONALD
Editorial Assistant

EDWIN P. ALEXANDER
Research Editor

Advertising Representatives

WEST COAST
JOSEPH MERVISH
6716 Gentry Avenue (Box 3115)
North Hollywood, Calif.
Phone: STanley 7-7556

MIDWEST
SOL SHULMAN
2656 W. Summerdale Ave.
Chicago 25, Ill.
Phone: UPtown 8-4139

Contents

Old Cheyenne—RMC Construction Feature by Lloyd Giebner 14
Brill Semi-Convertible Street Car 20
1956 New Product Previews From Grand Rapids 22
Black Mountain Lines—the HO Layout of Harold L. Olesen 26
4-4-4 Jubilee—An HO Locomotive by Bill Schopp 30
New York Central Streamlined Mercury 4-6-4 Plans 34
Stub Terminal Layouts No. 1-C 36
Jawn Henry—HO model of new Norfolk & Western turbine loco 37
Wiring Your Model Railroad 38
Your Nabor's Pike—Pix From Our Readers 41
Ore & Lumber Layout—5x12 ft. in HO Gauge 44
Narrow Gauge Junction—by Dick Andrews 46
Adding Detail—by T. Leaming 48
PICTURE LESSONS IN MODEL RAILROADING—6—Applying Decals 65

Departments

Safety Valve 6
Dispatcher's Report 10
Model Railroading Timetable 13
Trouble Shooting 50
Test Track Reviews 53
Swapper's Column 56
Offin The Test Track 58
Advertising Index 64

THE COVER: Harold Olesen looks over his Black Mountain Lines Layout, an HO pike in Los Altos, California. Studio D'Art photo.

ABOUT OUR ADVERTISING: We believe that every advertisement in this issue is backed by a responsible individual. Every precaution is taken to admit reliable firms only. To make doubly sure, we will make good any loss sustained by readers by trusting any irresponsible or misleading advertisements. Also, when called upon, we will adjust differences that may occur between readers and responsible advertisers. Readers will be fully protected except when due to honest bankrupts sanctioned by the courts. Notice of complaints should be sent to us within one month of transaction and to identify it, you should mention Railroad Model Craftsman when writing the advertiser.

Published monthly by Model Craftsman Publishing Corp., 1140 East West Highway, Silver Spring, Maryland. Editorial, Advertising and Circulation offices: Route 17, Ramsey, New Jersey. Charles A. Penn, President and Treasurer, Helen M. Penn, Secretary. Entered as second-class matter, August 14, 1953, at the Post Office at Silver Spring, Md., under the act of March 3, 1879.

Price 50c per copy; subscription $5.00 per year in the United States and Possessions. Canada, Foreign and Pan American Subscriptions $5.50 per year. The contents of this magazine must not be reprinted without permission.

Payment is made upon publication. Unless stated otherwise by contributor, we will assume no remuneration is expected. Copyright 1956 by Model Craftsman Publishing Corp. Printed in U. S. A.

A Letter From The Editor

THERE have been a number of great changes in the model railroading hobby in the last few years. Some of the larger scale model railroad manufacturers have converted partially or entirely to ready-to-run. Plastics have become commonplace. HO gauge has entered the toy field.

But to the 200,000 model rails in this country, model railroading is still a hobby, not a toy. These hobbyists are the fellows who broke away from tinplate originally, forsaking fine running tinplate for equipment which offered more in the way of individuality, freedom of expression, and an opportunity to create something worthwhile. These are the fans who model railroad twelve months around the year.

Most of these 200,000 model railroaders have been so busy with their hobby that they hardly know that there are HO ready-to-run sets available. They have continued buying the traditional craftsman type kit while the industry as a whole has undergone a tremendous upheaval. They have noticed that some of their favorite brands are no longer available or have become harder to obtain. In some cases, the hobbyists have had to resort to scratch building, especially in some of the so called minority gauges.

The demand for quality craftsman kits appears to be unlimited. Dealers from coast to coast tell us that some of the best selling kits are high priced and require a certain amount of assembly skill. More of these kits are needed and as long as the quality is there, the builders seem willing to pay for them.

Many fine kits are not finding their way to dealers' shelves because of poor distribution and partly by lack of promotion on the part of the manufacturers. Modern business economics often push these kits aside in favor of faster moving items.

We've already mentioned in this column that there are many new and revamped kits due for early release. More are coming and in all gauges. If the manufacturers, jobbers, and dealers will work together, the hobbyists will also benefit. And you'll learn about these new kits first in the ad columns of RAILROAD MODEL CRAFTSMAN.

Cordially,

Hal Carstens

Managing Editor

Next Month –

NEXT month is really a jam-packed issue. Lloyd Giebner presents the second part of his Old Cheyenne Village . . . There's another nifty trolley car plan you'll surely want to build if you're in the slightest bit traction minded . . . Wiring got you stumped. Layout Doctor has a nifty on two-railing . . . And picture stories, and lots more. Be out about May 25th.

the hobbyist's SUPERMARKET of super **SAVINGS**

NEW AND OLD ITEMS
... if available anywhere
WE'VE GOT EM!

WORLD'S LARGEST HOBBY MAIL ORDER HOUSE ... SINCE 1931

ALMOST EVERYTHING advertised in this magazine can be ordered from AHC

Use Convenient Order Blank

LOOK! Only AHC Gives You All These Terrific EXTRAS

1. 14 Day MONEY BACK GUARANTEE on unused purchases.
2. No Postage or packing charges for orders of over $2.00 (include 25c if order is under $2.00). We insure safe delivery ANYWHERE IN THE WORLD. Outside of U.S.A. (except APO & FPO) add 10% for postage (minimum 50c).
3. Membership in the "GOLDEN SPIKERS OF AMERICA," the club that keeps you up to date on railroading and SAVES YOU MONEY ON YOUR PURCHASES.
4. No "minimum" orders. Any order is welcome.
5. All orders processed in 24 hours. Mail addresses coast-to-coast airmail your orders to our N. Y. office for immediate shipment to you.
6. Most complete stock available in America. If it's advertised we can usually supply it.
7. Competent understanding of your problems.
8. 64 Page giant 2-color illustrated catalog FREE with every order.

MORE for your money

SATISFACTION GUARANTEED OR YOUR MONEY BACK

HO GAUGE

LOCOS & POWER UNITS

ATHEARN - GLOBE
R.D.C. (1, 2, 3 or 4) 14.95
R D C. (Dummy—1, 2, 3 or 4) 6.95
F7 DIESEL (S F, PA. or So. Pac
KIT - Single Drive A or B - ea 11 95
KIT - Dual Drive A or B - ea 14.95
ASSMBLD Sngl Dr A or B ea 14.95
ASSMBLD Dual Dr A or B ea 17.95
Dummy Kits UNPAINTED A Kit — 98 B Kit — .89
Dummy Kits PAINTED A Kit — 2 29 B Kit — 1 89

BOWSER
Articulated 4-6 6-4 52 50
Pacific 4-6-2 with tender 32 50
Artic. Tender (Semi-Vanderbilt) 8 50

Buried In This Ad
are most of the new items. Sometimes there isn't time or space to list all of them. But, if available anywhere, we have it.

FLEISHMANN (Ready to Run)
O-4-O Loco 11.50
Baldwin Dsl. Switcher 17.50
Mogul Loco 19.95
Pacific with Tender 23.50
0-6-0 Loco 14.95

HOBBYTOWN
Alco Pass Dsl 101K (12 wl dr) 29.95
8 wheel Drive 215K 19.95
Alco Switcher 211K (8 wl. dr) 29.95
8 wl. dr. 220K (DC70 Mtr.) 19.95
Alco 1600HP Dsl 123K (8wl dr.) 27.50
8 wl d. 206K (DC 90 Mtr) 19.95
EMD E-7 Pass. Dsl. 97K, 12 wl. 29.95
8 wl. dr. 186K (DC 90 Mtr) 19.95
GLOBE F7 Pwr Chasis 8 wl. dr 14.95
Multi-Drive 4 Dummy A or B ea 9 95

KEMPTRON
14 Whpe Tender 19 95
Shorty Vanderbilt 7 50
Thomas Flyer 1907 14.95

LINDSAY
Alco 1600 hp Diesel - A 13 95
B - 13.95 Dummy B 4.95
Power Truck Kit for Globe F7 9.95
Powertruck for RDC 12 95

MANTUA
Shark Nose Rd. Diesel A or B Unit 14.95
Shark Nose B Dummy 7.95
Shark Nose Dual Drive 9.95
Booster O-4-O 9.95
Shifter O-4-O 15.95
Valve Gear Kits 2 95
Assembled Valve Gear 4 95
Little Six 0-6-0 12.95
Big Six 17 95
Pacific 4-6-2 24 95
Mikado 2-8-2 27.95
Trolley 8.95
Mogul or Belle of 80's ea. 29.50
General or Rdhse. Goat -- ea. 24.50

PENN LINE
Pacific K4 with Tender 34 50
Atlantic with Tender 29 50
Consolidation with Tender 32 50
Mikado LI 34 50
TI Articulated 4-4-4-4 39.50
Midget Diesel Switcher 9 95
Midget Diesel Switcher Assem 14 50
Decapod 34 50

PENNA. SCALE MODELS
PCC Street Car 16.95
IRR Street Car 22.50
IRR Trailer 12 50
Brill Suburban Trolley 17.95

PITTMAN MOTORS
DC 60 5.00 DC 80 6.00
DC 71 6 50 DC 94 7 50
DC 91 7 50

VARNEY
Aerotrain Loco .99 Finished 1 99
Aerotrain Power Kit 9.50
O-4-O Dockside 15.00
Brute Diesel A or B (Assmbld.) 15.00
Brute Diesel Dummy A or B 1.25
Consolidation (with Tender) 29.95
GM 1000hp Diesel Switcher 19 75
Casey Jones with Tender 22 00
Drive Unit: Single 9.50, Double 14 95

MISCELLANEOUS
ROBICO Stubby 16 95
JERRY MARTIN Diesel Centriclutch 3 95
MODEL DIE CAST 0-6-0 17.50
MODEL DIE CAST 4-4-2 Atlan. 24.95
MODEL DIE CAST Yd. Hog 0-6-0 14.50
WALTHERS Shuttle Jack 21 95

POWER PACKS-CONTROLS

BERGEN PACER PACKS
Mono - Pacer 15.95
Duo - Pacer 32.95
Trio - Pacer 39 95

MODEL RECTIFIER CORP.
Throttle "Pulse" Pack 12 95
Train Pack 9.95
Dual Pack 29.75
Tri Pack 42.95
Model Meter Pack 25 50
Model Pack 22.75
Cab Control Unit 8.50
Model Adapter 9 25
Selenium Rectifiers- 2 Amp 4 50
4 Amp. 6.45 6 Amp 7 95

SCINTILLA
Throttle Control Handle 75
Unipack 10.95
Dyna Pack Mark IV 29 95
Electro Pack 19 95
Electro Pack Sr. (3 locos) 21.45
Block Control 8.50
Power Kits: 2 Amp 13 95
4 Amp 19.50 12 Amp 24 95

MISCELLANEOUS
Powerpacks: Herkimer 10.95
Varney, Hobbyline or Tyco ea. 9.95
Tyco Master Pack 19.95
HO Rheostat (Ohmite MT-40) 5 65
Lever Action Rheo (Bob Pearce) 5.45
Circuit Breakers 3 or 5 amps .50
Jiffy Switch Controller 2 25
0-6 or 0-20 DC Amp Panel Meter 3.00
0-15 DC Voltmeter Sq. Panel Type 3 00
TOGGLE SWITCHES
SP-ST $ .70 DP ST 80
DP-DT 95 SP-DT 95
DP-DT center off position Reverse 1 40
SP-DT mom (1 hole mounting) 1 25

HO ROLLING STOCK

ATHEARN & GLOBE
STREAMLINERS (PLASTIC):
Coach or Baggage - Mail .98
Painted S.F. or PA. 1.98
Vista Dome or Observation 1.29
Painted S F. or PA 2 29
40' BOX CARS ea. 2.50
El Capitan· Grand Canyon; Scout Chief Super Chief· ACL; CB&O C&EI· C &NW CN· CP Erie FEC GM&O GN· C DL&W· NP Monon NYNH&H·PM RI· SAL SP· UP.
40' SPECIAL BOX CARS ea. 2.95
B&O Sentinel· B&O Time Saver C&O Luminous· NYC Pacemaker SP Overnight Timken RF Red Yellow or Silver Western Pacific MP Eagle· NC&ST L· State of Maine
50' AUTO ea. 2.75
Super Chief El Capitan Scout Grand Canyon Monon KCS SSW MKT Chief A T S F Exp
40' FLAT CARS ea. 1.85
C & NW· Cinchfld· Grand Trunk
50' FLAT CARS ea. 1.95
Southern· U P · Erie
REEFERS ea. 2.75
Passenger Cars ea. 4.95
MDT, Ill Central, Burlington, ART; NP Armour, FDEX· ART/MP, WFE:PFE Swift, State of Maine
Rd. Roof Cars; 40' Box ea. 2.50
40' Auto ea. 2.65; 50' Auto ea. 2.75
DT&I Pennsy; SAL N&W
TANK CARS ea. 2.50
Single Dome Mobilgas· SP Gasoline Svc SP Diesel Svc; Union Pacific; Shell Texaco Roller Freight
TANK CARS (3 Dome) ea. 2.75
Union Oil, UTLX· Deep Rock; Shippers
TANK CARS ea. 2.40
Shorty Atlas, Magnolia, Crystal
Wrecking Crane (Erie 200 Ton) 8 50
Pulpwood Car 2.25

AMBROID
G.N Express or Unical Reefer 3 50
Stock Car or BM Snow Plow 3.00
Watermelon Car 3.00
Open Platform Coach, Baggage or Combination Car ea. 3.95

AUTHENTICAST
Slag Car 3.00 Magor Dump Car 4.95
Depressed Center Flat Car 2.50

AYERS
Flat Car 2.25 Gondola 2.35
High Side Gondola 2 45
Hopper Bottom Gondola 2 55

BINKLEY MODELS
PASSENGER CARS ea. 4.95
1880 Coach; 1890 Exp. Bag; 1890 Coach; C.P. Coach, U.S. Postal; 1864 Sleeper
1850 Pay Car 3.95
1870 Baggage Mail 4.50
1900 Chair Car 5.50
1890 "Shorty" Observation 5.75
Business Car 5.95
Col. Midland Wood Box 2.75
Overland Despatch Wood· Box 2.75
D & RGW Wood Stock Car 3.10
M P. & A.T.&S.F. Wood Stock 3.10
N.H. Box Car 3.35

HERKIMER (OK)
80' STREAMLINERS ea. 4.45
Coach, Baggage; Baggage-Coach; Sleeper; Diner; Postal-Baggage.
80' Astradome or Observ ea 5.45
60' STREAMLINERS ea. 3.95
Coach; Baggage, Baggage-Coach, Sleeper; Diner, Postal-Baggage.
60' Astradome or Observ. ea. 4.95

J-C MODELS
Observation Car 3 50
$2.95 ea Silver Sides NYC Postal NYC Baggage, Penn Baggage N&W Baggage & Coach; NYC Baggage & Coach Penn' & Coach Lounge· N&W Coach NYC & Lounge N&W Coach NYC Coach Penn Coach Penn Modernized Coach 12 Sec Pullman NYC Diner ea 2.95

LACONIA
Sierra Combine 3.25

Reefers: Dry Ice, Cent. Vt. Milk, Rut. Milk, Chat. Mar. Wine ea 1.75
Ralston Purina 2 25
Penna 70 Ton Hopper 1.50
Penna. Mill Type Gondola 1.50
PASSENGER CARS ea. 2.75
Pullman Std. 80'; 12 Sec. Sleeper; C&O Coach 80', NYC Comb. Baggage & Smoker 80, 12 sec. Std. Pullman 80, Std. 80' Coach; Std. 80' Comb. Baggage-Smoker
REEFERS ea. 2.50
Goetz Beer, Maine Potatoes, Tivoli Beer, Bullfrog Beer, Columbia Soup, Merchants Biscuit; Kraft Cheese; Peerless Beer, Libby's Pickles Page Milk

MAIN LINE
50' Reefers --- less tks. --- ea. 2.95
Express—Renkens Milk; PFE Sheffield Farms; Penn Exp, Milw, Basic (rd.rf.) unpainted; G.N.; N.P.; Basic (flat roof), Menasha
36' Reefers --- less tks. --- ea. 2.85
Pvt Owner—Chrisco; Decker Meats; NRCC Bananas; Budweiser.
Palace Poultry Car --- less tks. --- 2.75
Pennsy N6B Caboose 2.95

MANTUA
REEFERS ea. 2.65
Borden's; Burl; Crazy Crystals
GONDOLAS ea. 2.25
Penna; T&P· B&O· R.I.
STOCK CARS ea. 2.25
A C.L , M.K.T ; M.P.
TANK CARS ea. 2.45
Texaco, Shell or Republic
BOX CARS ea. 2.25
WM; GM&O; GA; MC; MKT; GN
Flat Car 1.75
8 Wl. Caboose 3.25 Pennsy 2.95
4 Wheel Bobber Caboose 1.95
Streamline Coach or Combine ea. 4.95
Baggage 4.95 Observation 5.95
Liting Kit for Pass. Cars 1.75

TANK CARS ea. 2.50
Sinclair, UTLX; Texaco; GATX ATSF Koppers or Carbide & Carbon ea. 2 25
REFRIGERATOR CARS ea. 3.35
Maine Potato, Can Nat'l, Burlington NYC (MDT), Gerbers Baby Foods, No Pac, St Louis Reefer'; Wabash Flag "ART", Santa Fe "El Capitan", Pac. Fruit Exp., Old Dutch Cleanser, Blatz Beer; Fairmont Butter· Carnation Milk· Pabst Beer, Schlitz Beer.
COVERED HOPPERS ea. 2.35
Monon, NY; Nkl. Plate, Pa, Del & Hud.
HOPPER CARS ea. 2.35
Virginian, Penna, Burlington So, Pac Chicago & E Ill; Central of Georgia
GONDOLA CARS ea. 1.90
Penna; So Pac; Den, & Rio Grande, Mich, EJ & E.
FLAT CARS ea. 2.45
U.P., Pa., B&O, S.F., No Pac, EJ&E
BOX CARS ea. 3.50
B&O 'Time Saver Svc, Penn 'Merchandise Svc", Mo. Pac, Frisco Fast Freight MKT Katy; West. Pac "Feather"; NYC "Pacemaker' NC & St Louis Dixie land"; Santa Fe "Super Chief"; Un Pac Buffalo Creek, West India Fruit
CATTLE CARS ea. 2.25
Penna· NY Central; Santa Fe; Un. Pac Ill. Cent., A.C.L., T & No.
Std. Caboose 3.25 Bay Window 3 50
3 Ore Car Train 2.90
Auxiliary Water Tank Car 2 25

MISCELLANEOUS
Flat Rack Rig (Ulrich) 2.50
Tractor & Trailer Rig (Ulrich) 2.50
Mack Rig (Ulrich) 2.50
Dump Rig (Ulrich) 2.75
Shorty Caboose (M.E.W.) 2.95
Associated Transport 2.50
Mew Log Buggy 2.50
Thomas Wine Car 3.25
Ribbon Rail Track Cleaning Car 4 95
Model Wood Lumber Kits, Kit A 2.95
Kit B 3.95 Kit C 5 95

CV 6W Riveted or Cast Frame 1.95
CV 4W Riveted Frame, Standard or Streamliner Types 1.65

HO TRACK PRODUCTS

ATLAS
Curvable Track 3 Ft. Section .75
Switch Kits Y 4 6 8-LH or RH 1 25
Asmbld Switches 4or6 LHorRH 1 95
90 Degree Crossing 1.75
45 or 60 Degree Crossing 2.25
18 or 30 Degree Crossing 2 50
Rail Joiners, Brass .50
Plastic Insul. Rail Joiners 12 .15
Cork Roadbed or Switch Blocks ea 35
Tie Strip 25 Ft 1 50
Switch Tie Strip 10 Ft 2 00
Double Tie Strip 10 Ft 2 50
HO Brass Rail 99 Ft 3 75
ATLAS "SNAP-TRACK"
Snap-Track Straight 9' Sections or Curved (15", 18" or 22" Rad.) ea. 25
Auto Snap Switch R.H or L H 4.50
Manual Snap Switch RH or LH 2.95
Bumper .49 Control Box .60
Girder Bridge 1.75
90° Snap-Crossing 2.25
Terminal Sect Snap-Track .75
Re-Railer on Snap-Track .60

TRU-SCALE READY-TRACK
Straight 2' lengths $1 00, Curved 16', 18" & 20" radius ea. .75; Full circle $6.00
MOUNTED TURNOUTS TIED ea. 3.35
Hi-Speed 4, 6, 8 or Wye RH or LH
MOUNTED X-OVERS TIED ea. 5.95
Hi-Speed 4, 6, 8 RH or LH
Scissor Crossover 4&6, RH or LH 17.95
Hi Sp. Dbl. T'nout #4, RH or LH 10.95
MOUNTED CROSSINGS
14°, 28° 45°, 60°, 90° ea 3.95
ROADBED, WOOD TIES—PLAIN
Straight 3 Ft .45 .33
Superflex 3 Ft .72
Spiral Easements, R&L, pr. .80

HO & TT GAUGE

TOOLS
Troxel (Brass) Track Gauge .85
Gaunt Track Gauge .25
Mantua Track Gauge .40
Coupler Height Gauge .35
Kadee Coupler Ht Gauge 1 00
M. E. W Track Gauge .35
Varney Track Gauge .30
M. E W. Track Layer 1.25
Gaunt Spiker .75
Lindsay Magnetic Rail Spiker 3.35
Mantua Re-Railer .35
Varney Re-Railer 25 Permanent .69
Clock Oil 25 Spindle Oil 25

SUYDAM & ARGY
Nite & Day Water Heater Co 4 25
Interior Details 2 25 Lighting 95
3 Stall Rdhse 5.25 Xtra stalls 1.25
No 1 Furniture Factory 3 75
No 2A Machine Wks Dbl Bldg 4 25
#2B Machine Wks., Single Bldg. 3 00
#3 Northside Tool & Die Co. 3 75
#4 Mine Buildings 5 25
Warehouse - $3 75 Engine House 3.95
Pump House 2 95 Sawmill 4 85
Grain Elevator 3 75
Mines: Blk. Dart 1.95 Red Lk 2.75
House-Cream Lt Green Rose 2 25

NO MINIMUM ORDER

14 Day FREE Examination WITH FULL MONEY BACK GUARANTEE!

Any unused item purchased from us can be returned in 14 days for complete refund or exchange.

ORDER NOW! GET ALL THE AHC "EXTRAS"

Valvespout No 3 Precision Oiler 1.00
Scale Ruler (HO) Steel 45 and .65
12" HO Scale Ruler 1.00
Double Pin Vise 1.00 4-Way 1.50
Jeweler's Saw 1.39 Zona 1.00
Glue Gun Plastic 50: Metal .75

MISCELLANEOUS
Terminal Connector (Mantua) .50
M. H. P Diaphragms pr. .65
HO Ballast, Gravel, Grass, Earth Coal Scenic Sand ..ea .35
Tracklayer Spikes .60
Spikes (Offsett Hd—Steel) pkge .50

Shelter· Open or All Season ea. 95
Station Shed 2.95
Yard Control Tower 4 50
Mail Pouch Tobacco Barn 1 95
Switchyard Observ. Tower 4 50
Grand Junction Box Works 3 25
Swift Meat Packing Plant 3 65
Fruit Growers Exchange 3 25
Purina Chows Feed Mill 3 45

FIGURES—ACCESSORIES

MISCELLANEOUS
Hi-Lo Trestle Set 7.95
Girder Bridge (Authenticast) 2.00
Signal Bridge (Authenticast) 1.75
Curved Timber Trestle (star) 5.95
Old Time Timber Tunnel Portal 1 50

AUTHENTICAST FIGURES
Crosswalk Scene 1 89 Farm Set 1.89
Fire Fighting Set 2.50 Rd. Signs 1.89
Flat Car Loads 2.50 Accid. Grp. 1.89
Bus Stop Scene 1.89 Figs., Signs 1 59

TRU-SCALE
SCENIC BACKGROUND ea. 1.00
Farm Scene; Town Scene, Mountain.
TREES, INDIVIDUAL 6 for 1.00
Green Shade Tree, Cypress Tree; Orange Tree; Apple Tree; Spring· Autumn Tree
SHRUBS AND MISC.
Hedges (Flowered or Plain) .98
Plants or Bushes (Flowered) .98
Imitation Grass, Earth or Lichen .98
Landscape Kits 9 pc. .98; 19 pc. 1.95
Flowers Climbing .98

CEMENTS & LIQUIDS
Ambroid .30 and .60
Goo (Walthers) .50
Model Cement .10; .15; .25
High Ball Spray Black 1.29
Track Cleaner or Loco Smoke ea .98
Rust Preventative 98

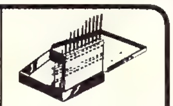
RED HOT BUYS

HO BRASS RAIL
99 Ft. $2.95
495' for $12.50

SOLDERING IRON
Ideal for all model work Reg. $2.25. A Real buy at only —— **$1.29**

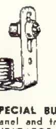
DC POWER SOURCE
4 amps, 12 volts in a build-it-yourself power kit. Here's a basic unit consisting of transformer, line cord, full wave constant duty selenium rectifier—color coded and labeled for hookup, 5 amp circuit breaker and holder, etc. An ideal power source for cab control.
REDUCED TO 9.00

0-20 D-C AMP METER . . . panel mount, 2¾" square with bracket. An AHC super special.
Reg. $3.00 —— **2.00**



61-80 CARBON DRILL SET with Huot Case. Of good quality
Save $2.00.
Reg. $6 50 —— **4.50**

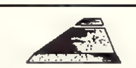
HO SWITCH MACHINES
Positive spring toggle action. A real "buy" at this low price!
98¢



4 for $1.00
10 for $2.00
SPECIAL BUY! Control panel and track diagram INDICATOR LAMPS. A real bargain!

SWITCH CONTROLLERS. Complete with 2 colored G.E. miniature bulbs, mounting screws, number strips, full instructions etc. Reg. 98c each **2 for $1.59**

TOGGLE SWITCHES
SPST ___ 29c
DPDT center off ___ 98c



AHC CORK SWITCH BLOCKS for No 4 or 6 switches (LH or RH). Extra wide to fit switches with built-in switch machines.
Reg. 35c —— **30¢**

PEA LAMPS . . . 12 volt with leads Choice of Red, Green, Amber or White . 10 for $1.25
3 for 49c

SILVER STREAK
BOX CARS ea 2.95
Minn & St. L Savannah & At. Frisco Minn, Mining, Union Pac, D&R GW Auto
REEFERS ea. 2.95
AT&SF; Green Bay & West; Oscar Mayer Swift, No. Pac ; MDT (NYC), C.& R.
Gondola N. Y. C. 2.75
Gondola Nickleplate 2 75
WORK CARS ea. 2.95
Bunk, Commissary; Supply; Engineering
CABOOSE CARS ea. 3.25
B&O; So. Pac; Un. Pac; 4 Wl Bobber Bay Window; MP Drovers· Combination
Caboose Cars ea. 3 50

ULRICH
COMPOSITE GONDOLAS ea. 2.50
Rock Is; Jersey Cent; Lehigh Valley Penna; Nor. & West; At. Top & Santa Fe
GEN. SVC GONDOLAS ea. 2.90
So Pac Un. Pac, Co & So Burlington, Utah Coal Route· Great Northern· Minneapolis & St. Louis, Soo Line
OUTSIDE BRACED BOX CARS ea. 2.90
So Pac, Pere Marquette· Boston & Maine; Great Northern; Del & Hudson At. Top & Santa Fe· Den & Rio Grande· La & Ark
OUTSIDE BRACED CATTLE CARS ea. 2.75
Chicago, St Paul· Minn & Omaha, At Coast Line, Penna, Chicago & N'western
WOOD SIDE BOX CARS ea. 2.50
Texas & Pac Delaware; Lack & Western
FLAT CARS ea. 2.25
Nashville, Chat, & St Louis, So Pac Texas & Pac; Canadian Pac· St. Louis Southwestern· Soo Line
HOPPER CARS ea. 2.90
D&H, L.V., Reading, W.Md.; Santa Fe B&O; R I ; L&N; Mo-Pac; NYC; Erie Frisco; N&W Pa C B. & O· Milw
Track Cleaning Car 1 75

VARNEY
Aerotrain Coach .79 Observ 99
Finished Coach 1.79 Observ 1.99
STREAMLINE PASS. CARS ea. 3.50
B&O Coach UP Coach Penn Comb Penn Coach SP Comb SP Coach Ill Central Comb· Ill Central Coach· Great Northern Coach Great No Combination
STREAMLINE PASS. CARS ea. 3.95
Penn Observ SP Observ· Ill Central Observ Great Northern Observation
40' FLAT CARS ea. 1.90
Pa S.P A T S F NYC No West

HO CAR PARTS

COUPLERS & RAMPS
Rail Line NMRA std couplers pr. .35
Rail Line (above) w/dr. gear pr. .50
Rail Line Uncoupling Ramp .35
Varney Dummy .10 w/draft .15
Mantua Freight .35 Passgr 50
Mantua Freight (metal cars) or .25
Mantua Uncoupling Ramp .50
Varney Automatic 20 Brass 30
New Varney Ramp .15
Kadee — .40 w/Draft Gear .50
Kadee Uncoupling Ramp 25
Kadee Control Button 1.35
HObbyline Couplers (Plastic) pr. .25

TRUCKS
Kadee Talgo Trucks pr. 1.30
Buckeye Double Truss pr. 75
Mantua Talgo Pass pr 1.95
Mantua Talgo Trucks pr. 1.25
Varney (Nylon) pr. 50
Silver Streak (Metal) pr 85
Mantua Bettendorf pr .75
Athearn Bettendorf, Arch Bar or Andrews Types pr. .85
Athearn Symington pr. 1 00
Athearn Buckeye 6 Wheel pr. 1.95
Cent. Valley Fox Type 30 Ton 1.10
Cent. Valley Fox Type 40 Ton 1.10
CV Arch Bar Short Wheelbase .85

Bridge Stock 18 in .40
Switch Blocks, Any Size .65 .45
X-over Bloc, Any Size 85 55

COMPLETE CIRCLES
14" Radius 1.90 1 45
16" Radius 2 15 1.65
18" Radius 2.40 1.85
20" Radius 2.65 2.05
22" Radius 2.90 2.20
24" Radius 3.15 2.40
26" Radius 3.40 2.60
28" Radius 3.65 2.80
30" Radius 3.90 2.95
32" Radius 4.15 3.15
34" Radius 4.40 3.35
36" Radius 4.65 3 55
Switch Kits ea 1.25

HO MISCELLANEOUS

SWITCH MACHINES
Klick - 1.35 Challenger 3.50
Polaris (Exposed or Concealed) 2.25
Turbo Jet 1.50
Walthers TS-5 2.25
Lindsay - 2.95 Mini-Switch 1.95
Jiffy Switch 2.25
Kurtz Kraft K4—1.50; Economy .98
M. E. W. Ground Throw .75
Kurtz Kraft K5 2.50

Slide Switch .25
Kurtz Kraft Semaphore 2 25
Kurtz Kraft Crossing Gate 1 95

BLDGS. & STRUCTURES

TURNTABLES
Ideal 10.95
Robico Gallows 3.50

ALEXANDER
Country School or Fr. Stn. ea. 3.50
Tunnel Portals (PRR, B&O, N&W) 1.15
Dbl. Tunnel Portals " 1.50
Water Tank - $2.95 Coaling Stn. 6 95
Pillar Crane & Dock 2.95
Oil Tank and Rack 2.25

AYERS
Rail Truck Terminal 2.25
Mission Style Station 1 90
1887 Passenger Depot 4 25
Fr House, 1886 2 95 Box Car 1.95
Cooling Twr. 1.10; Water Tank 2.25
Mission Cafe- 2.75 Lumber Yard 4.25
Union Ice Co. 4.25 Old Town 4.95
Icing Platform Extension 2.10
New Diesel House 4.95
Modern Station 1 45 Factory 2.25
Deck or Thru Timber Bridge ea. 3.30
Timber Trestle 3.75 Truss Bridge 3.60
Old Town Lodgings 3.75
Platforms: Freight 1.25 Pasgr. .95

CALLING ALL N.Y. CITY and metropolitan area MODELERS

VISIT OUR **Hobby City**
156 West 25th Street, New York 1, N. Y.
You'll find everything here the world's largest stock — including the smallest engine parts. Experts on hand to help you!

410 M RR. COLORS ea. .45
Flat Black; Box Car Red, Reefer Yellow Reefer Orange, Tuscan Red, Clear Gloss, Pullman Green Coach Green Caboose Red; Roof Brown; White· Blue Gray; Box Car Green· Tank Yellow Socony Red
Thinner (2oz) .30 Thinner (8 oz) .65

BOOKS
Atlas Track & Layout .10
Operating Manual 2 00
How To Wire Model RR. (Wescott) 2.00
" To Run Mdl RR (Boomer Pete) 2.00
Model RR. Encyclop (Kalmbach) 6 00
Track and Layout (Kalmbach) 2 00
Prac. Guide to Model RR" 2 00
Introd to Scale" (Wescott) .25
Fun with Model Railroads .15
Model Cars & Locos 1 00
How to Wire Supplement 75
Small RRs U Can Build 1 00
'Automatic Control' or Couplers .50
Track or Freight Car Design 1 00

MFG. CATALOGS
Mantua Encyclopedia 35
Walther Catalog or Bob Pearce .50
Penn Line, Model Die Casting ea. .25
Marklin or Authenticast ea. 35
Varney Athearn Hobbyline, Tru-Scale Selley, Suydam Faller, Ayres Ulrich Pioneer, Summit, Model Rectifier, Silver Streak, Fleischmann, Alexander; Ambroid, Binkley Weston ea .10

HOW TO ORDER

Send payment in full. No stamps, no C.O.D.'s.
Address your order to us at the branch office nearest to you:

AMERICA'S HOBBY CENTER
Dept. C-56 156C West 25th St., New York 1, N. Y.
Dept. C-56 55C E. Washington Street, Chicago 2, Illinois
Dept. C-56 Rm. 230C, 742 Market St., San Francisco 2, Calif.

NO MINIMUM ORDER · NO MINIMUM ORDER

WE DUPLICATE ANY OFFER made by any other advertiser. Attach ANY ad to your order—and take advantage of the AHC "extras."

READ THIS ENTIRE MAGAZINE FROM COVER TO COVER ALMOST EVERYTHING ADVERTISED CAN BE ORDERED FROM AHC.

PARTS: We carry extra and repair parts in stock. Send today for the parts you need to keep your equipment in "tip-top" shape.

AMERICA'S HOBBY CENTER, Inc.

1931 **25th YEAR** 1956

America's Largest Source of Models & Supplies

"AHC"...THE MODEL RAILROADER'S SUPERMARKET FOR SUPER SAVINGS

EVERY DAY IS SAVINGS DAY AT AMERICA'S HOBBY CENTER

"HO" GAUGE FLOODLIGHT TOWER Electrified. 6¼" high. Has two lights, screw terminals & hook-up wire. No soldering necessary. $2.50

HO SIGNAL BRIDGE . . . all metal. Beautifully detailed. An AHC super bargain at only 98¢

PENN LINE

2 for 1 SALE

Assembled • Ready-To-Run

Special Purchase! Here's your buy-of-a-lifetime . . . you **BUY ONE** and get **ONE FREE!** We have a limited quantity only . . . so hurry!

BUY THIS $19.50 NO. PAC. DIESEL "A" UNIT

GET THIS $17.50 NO. PAC. "B" UNIT FREE

With Real Diesel Horn

REG. $37.00 BOTH FOR ONLY 19.50

HO SIGN BOARDS All Metal. A must for every layout! SALE PRICED 4 FOR $1.00

"HO" TUNNEL PORTALS Authentically detailed . . . in plastic. A real bargain value! 2 for 98¢

20 "HO" SCALE BUILDINGS $1

A terrific value! **Cardboard CUTOUT BOOK** with 20 realistic HO scale FULL COLOR buildings. Contains Enginehouse Water Tower, Freight House Lunch Wagon, 2 RR Stations Restaurant, etc., etc.

TRUCKS . . . An AHC Super Special. AAR Bettendorf all metal sprung freight Trucks Reg. 90c Pr. 50¢

SET OF 7 RR. PAINTS . . . ½ oz. bottles . . . one each of all popular colors Reg. 89c. 69¢

BRUSHES. We made a special purchase and can offer you a real "buy". Assorted sizes $1.00 Value 20 for $1.00

HO GIRDER BRIDGE . . . all metal. An excellent value at only 98¢ PAIR

Santa Fe · Western Pacific · Great Northern Railway · Frisco · Burlington Route

69¢ HO RAILROAD HERALDS

What a bargain! Authentic HO scale DECALS . . . one each of over 20 popular RR. HERALDS. They're in full color . . . ideal for a great variety of uses on your pike.

AHC PARTS BOXES. Transparent plastic with hinged tops. 1¾ x 2¾ x ¾" high. Ideal for small parts storage Reg. 15c each 6 for 50¢

AHC CORK ROADBED Flexible . . . easily curved to match your track layout. Comes beveled for realism. NO MINIMUM ORDER! 3 Ft Section 30¢

AHC All-Gauge Track Plan Designer. Saves hours of labor . . . has 16 curves, 4 crossing angles, dbl. track spacing, etc. SPECIAL . . . ONLY 59¢

HO FARM ANIMALS . . . set of 6 (unpainted). Includes sitting pig, standing pig, sheep, lamb, horse and cow Reg. 70c 35¢

HOOK-UP WIRE. 50 Ft coils, asstd. colors. Single 20 gauge wire solid plastic covered 6 Coils—$2.75 12 Coils— 5.25

AHC 5-in-1 TRACK GAUGE . . . all metal For checking track gauge guard rail spacing, spike projection, etc Reg. 35c 25¢

AHC TRACK CLEANER . . . ideal for keeping your track bright, clean and efficient. Will last for months 25c value 15¢

24 HO FIGURES . . . 6 each of train crew, station crew, passengers and passengers with luggage Unpainted $1.50 VALUE 1.15

POWER PACK SPECIAL

FAMOUS "AHC" SOLO PACK 8.95

One train power pack with pulse power. An "AHC" Super Buy!

FLEXIBLE "HO" Brass TRACK

50¢ Per 3-foot Section

Accurately detailed — solid brass rail on heavy gauge fibre tie strip. Meets our own (and N.M.R.A.'s) specifications. NO MINIMUM ORDER!

25 SECTIONS FOR $10.00

HO Right of Way Signs. Sheet of decals with 32 signs (10 different kinds) usually found around railroad yards Reg. $30c 15¢

22 Pc. STATION SCENE . . . HO scale, with newsstand & dlr., bag. wgn., hand tk., 9 people, mail box, dog, trash box, etc Metal. A terrific value 1.00

SPECIAL BONUS OFFER

Here's the bargain-gift offer that had us swamped at Christmastime! Now . . . in answer to your many requests and letters—"Operation CHRISTMAS GIFT" continues. It's the most tremendous bargain ever. LOOK SEE!

GIFT NO. 1 COSTS YOU ONLY 25¢ with every order of $10.00 or over

Here's What You Get: AHC 5-in-1 Track Gauge • Fishplates • AHC Track Cleaner • 2 AHC Terminal Connectors • Parts Box • Tube of Cement • 32 Decals HO Right of Way Signs • HO Manual on Model RR.

GIFT NO. 2 COSTS YOU ONLY 50¢ with every order of $15.00 or over

You Get Everything in GIFT #1 . . . PLUS AHC All-Gauge Track Plan Designer • 2 Artist Brushes #1 & 2 • 6 HO Farm Animals.

ORDER NOW!

14 Pc. COUNTRY STORE SET with cracker brl., pot belly stove, 2 cases, 2 chairs, 2 men, platform scale, hand truck, etc All Metal. HO scale 50¢

PRECISION SCREWDRIVERS Swiss imported. Set of 6, Nos. 0-1-2-3-4-5. Reg. $2.25 1.49

"HO" SWITCHES 6 for $7.50

Completely assembled. 4, 6 RH or LH. All brass . . . made to N.M.R.A.'s rigid specifications. The smoothest operating switches you can buy. NO MINIMUM ORDER. 1.50 ea.

HO ROAD GANG SET . . . includes various Rr. workmen & their equipment. An excellent value . . only 50¢

HOBBYIST FILES. Round, ½rd., flat, oval, knife, square, 3-sided, equalling, flat oval, barette, triangle or diamond Set of 12 in wood box w/sliding cvr. 2.50

HOBBYIST'S PLIERS . . . finest imported. Choice of Long nose side cutting or Square nose Precision made with knurled handles Each 75¢

Free AHC BARGAIN BULLETIN

Dozens of big bargains. Send a self-addressed, stamped envelope today for your **FREE** copy. Please specify 'Rail Bulletin RRBB'

ATTENTION MFRS. JOBBERS DEALERS closeouts WANTED

HO CAR KITS

COMPLETE WITH NYLON TRUCKS

Any Six Cars for $5.00 98¢

Compare these car kits with any on the market! A real bargain value at a bargain price. They're complete in every detail with printed, scored or embossed sides, metal parts such as ladders, steps, brake wheels etc., etc. Full sized plans included.

PLEASE ORDER KITS BY NUMBER

REFRIGERATOR	BOX CARS	FLAT CARS
(1) PLUTO WATER	(7) M.K.T.	(13) L. & N.
(2) BABY RUTH	(8) WABASH	(14) C. & N.W.
(3) HORMEL FOODS	(9) G.T.W.	(15) MILWAUKEE
(4) M.T.D.	(10) T & P	
(5) GREEN BAY	(11) M.P.	
(6) A.R.T.	(12) C. & E.I.	

ALL 15 CARS FOR ONLY $11.95

Above Kits with SILVER STREAK Metal Trucks $1.25

Any 6 for $6.95 All 15 for $15.49

We'll PAY YOU to send for our 64 PAGE CATALOG

IT'S ALL RAILS!

No . . . we're not "crazy". We want every reader of this magazine to have a copy of our catalog . . . and we're willing to pay for it! See our sensational offer below! The 2-color catalog is exclusively HO and TT "RAILS" . . . over 5000 items, fully illustrated . . . with pages and pages of informative data, charts, etc.

Send only 50¢ For Our Jumbo Catalog & Get a **$1.00 CREDIT** refundable with your next order

HOW TO ORDER

Send payment in full. No stamps, no C.O.D.'s. Address your order to your nearest AHC branch office. Include 25¢ extra if order is under $2.00.

AMERICA'S HOBBY CENTER

156C West 25th St., New York 1, N. Y.
55C E. Washington Street, Chicago 2, Illinois
Rm. 230C, 742 Market St., San Francisco 2, Calif.

Please RUSH me the following:

PLEASE PRINT

Name _____

Street Address _____ Amount Enclosed _____

City _____ Zone _____ State _____

NOTE: Branch offices (Chicago and San Francisco) airmail your orders to our N. Y. headquarters for immediate shipment

☐ Gift #1 I enclose 25c and this order for $10.00 or over ☐ Gift #2 I enclose 50c and this order for $15.00 or over ☐ CATALOG I enclose 50c. Send Catalog & $1.00 Credit

Page	Quantity	Name & Description of Items	Cost Each	Total
			Total	

24 HOUR SERVICE AT ALL TIMES DEPT. C-56

Soldiers! Sailors! Marines! Orders placed through us get special attention. We understand your problems and take special care of your orders. No postage or packing charges on orders for over $2.

Canadians & Foreign Modelers! You save plenty by ordering from us. We accept your currency at market value. Canadian -- $1.00: Sterling -- $2.63; N.Z. - $2.35; Australian - $2.00; Philippine Peso - 33c; etc. Add 10% for postage and packing (minimum 50c).

ALL ORDERS PROCESSED IN 24 HOURS

Branch offices, conveniently located coast-to-coast, airmail your orders to our N. Y. headquarters for immediate shipment.

SAVE TIME! USE THIS HANDY ORDER FORM

GUARANTEED *Safe Delivery Anywhere in the WORLD*

AHC 1931 25 1956 ANNIVERSARY

AND . . . IF YOU DON'T SEE IT ON THESE TWO PAGES . . . WRITE FOR IT . . . NEW OR OLD ITEMS . . . IF AVAILABLE ANYWHERE . . . WE'VE GOT 'EM

NEED ACCESSORIES?

• Slow Motion Actuators • Wig-Wags
• Semaphores • Trackside Switches
• Block Switches • Crossing Gates

Slow Motion Actuator provides realistic motion, will hold semaphore blade or crossing gate arms in either position without current. This mechanical retarding device is completely assembled.

Wig-Wag for highway crossings is motor driven with an oscillating blade flashing red light, and realistic sounding gong.

O-HO Wig-Wag Kit, w/motor $5.50
HO Semaphore Kit, w/Actuator 4.85
HO, Crossing Gates, w/Actuator 4.85
O-HO Actuator alone 4.25

Trackside Switches, installed at points alongside track and operated by a shoe mounted on engine provide a separate electrical circuit for actuator operation.
Trackside Switches, w/shoe, pr. 1.95
Extra shoes, pr. ..... .25
Block Switches installed on actuator provide automatic train control. Can also be used to indicate position of train, operate crossing gate wig-wag, turn on lights, etc.
Block Switch, ea. ..... .95

See your Hobby Dealer — Send 10c for literature

DON J. FOWLER
128 N. Almont Dr.
Los Angeles 48, Cal.

FOWLER'S SLOW MOTION

NEW 1956 CATALOG

More **Live Steam** Locomotives

NEW PICTURES
Passenger Carrying Locomotives
NEW IDEAS
You can have a backyard railroad!

All on live steam locomotives, some of which you can practically "Bolt Together"—we do the lathe and mill work. Also rough castings, RAIL and EVERYTHING FOR BUILDING LIVE STEAM LOCOMOTIVES. Old-time and modern engines and equipment in ¼", ½", ¾", 1" and 1½" scales.

Write today for 100 page catalog. 50c per copy

LITTLE ENGINES Box A Lomita, Calif.

CONVERT

your Bowser K-11 Pacific
or Challenger Articulated
to LIVE STEAM

Drawings and instructions
..... **$3.50**
Kits available

Build your own LIVE STEAM HO Pacific—Plans and instructions
..... **$3.50**

Send 20c for complete info and prices on HO Live Steam

JOSEPH B. MAIER CO.
12270-C MONTAGUE ST.
PACOIMA, CALIF.

ONLY THE BEST

COMES FROM BOWSER
U.P. CHALLENGER 4-6-6-4

You'll find thousands of these detail packed Bowser articulateds on HO pikes throughout the world. They take 18 inch radius curves, have full valve gear, beautiful all metal die castings, and that famous Bowser motor. $52.50 at your favorite dealer.

Bowser's SP-1 tender, the perfect mate, $8.50

BOWSER'S CATALOG and instruction manual $1

Bowser
REDLANDS, CALIF.

SAFETY VALVE

Higher Mathematics

In the January issue of RMC on page 62 under "Amber Board," the table showing the number of feet per mile for HO gauge appears to be in error.

In this gauge, 1 foot = 3.5mm.

Also, we know 1 mile = 5280 feet therefore 1 mile = 3.5 x 5280 millimeters or 1 mile = 18480 millimeters or 1 mile = 1848 centimeters (cm.)

Since 1848 ÷ 2.54 = 727.56 inches and 727.56 ÷ 12 = 60.63 feet or 60.63 feet = 1 scale mile for HO gauge.

Robert M. Randolph
Westfield, N. J.

• *Guess all we can do is put our foot in it by saying we have pretty big feet hereabouts. Incidently, while many larger manufacturers figure their tooling up in fractions because of the necessity of dealing with American machinery, HO gauge started out as a millimeter gauge. Hence, HO has a gauge of 16.5mm. and a scale of 3.5mm. per foot. Any millimeter rule can therefore be used, if necessary, to figure HO dimensions although it is easier to work with a specially calibrated HO scale rule. Ed.*

Says Mfrs Are On The Ball

Recently in a G. N. yard at Willmar, Minn., I saw one of the New Haven box cars with the new paint job and are they snappy! The models were released by Binkley before I even saw the prototype, so that shows you that the HO producers are really on the ball.

Arling Brinck
Minnesota Central RR
Belgrade, Minn.

• *Don't forget O gauge, too. All-Nation has had one for some months. And Gilbert will have an S gauge version this winter. But only Binkley has both red and black versions. There still is no Central of Georgia HO boxcar, with silver oval although, again, American Flyer will release one this winter. Ed.*

As Long As They Don't Pile Up

Allow me to apologize to Earl Cochrane for Donald S. Robinson because I got him so steamed up in the March issue Safety Valve, that he confused my jesting attack on John Allen's timetable with that of Earl Cochrane. I'm sure that both Earl and John are considered master modelers in the hobby.

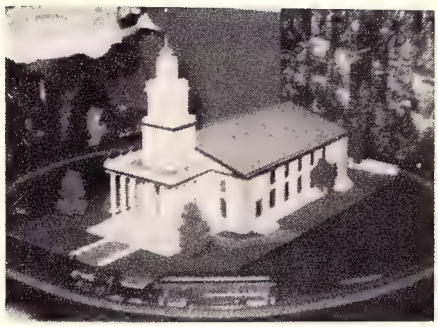
Perhaps it would clear Mr. Robinson up a little to remind him that train movements in terminals are governed by terminal time tables and if he will check he will find that the inbound even numbered trains are also Eastbound and that the outbound trains having an odd number are also Westbound trains. Our Northbound Atlanta Division trains reach Ooltewah Junction with an even number and upon entering the terminal area governed by the Terminal Timetable they are traveling in a Westward direction. Thus they arrive at the terminal station with an odd number. Outbound trains are the same way and by leaving in an eastward direction they carry an even number until they reach the Junction and are governed by the Atlanta Division timetable where they take an odd number as a Southbound train.

M. B. Johnson
Chattanooga, Tenn.

Copying His Stuff

When my eye fell on the sketch in column 3, page 6 of the March issue, I said, "Heck, somebody's been copying my stuff." You can see why from the photo enclosed of a small temporary setup I had at Christmas time. The church is a 3/16" scale model of Glenn Memorial Methodist Church at Emory University, Atlanta. The picture appears out of proportion inasmuh as the track and train are HO.

Jacksonville 2, Fla.
Will Love



• *The photo, reproduced in monochrome from an original Kodachrome print doesn't do the church model justice. Ed.*

What Do You Know?

The plural of caboose is cabooses not cabeese according to the Quiz Book put out by the Association of American Railroads. They state that in 1950 that the American Railroads had a total of 24, 660 cabooses.

C. A. Shuster
439 Reynolds Ave.
Kittanning, Pa.

• *Well, guess we'll have to go to the hobby shop and pick up some cast HO scale gooses for our layout. Ed.*

Wants More Craftsman Kits

I do not question the advantages to the hobby you have cited for ready-to-run train sets and kits. But there is one big disadvantage to the serious model railroader that has escaped mention. Some of the biggest and best producers in the trade have seemingly thrown all of their resources into the developing of such sets. As a result there is a dearth of new development in the truly craft type kit. Fewer and fewer parts are available for scratch building because hobby shops probably like the smaller inventory afforded in the ready-to-run type. Shops full of trays with parts are becoming as scarce as the teeth of a hen.

Along the same line, diesel locomotives are more adapted to this ready-to-run craze Hence it is the development of new steam locomotives that is taking the back seat. This is no small tragedy for lovers of steam prototype. It is here that the disadvantage is most noticeable.

I can't help but wonder if in the long run this trend will not mean the disappearance of hobby shops as we know them. How long can hobby shops compete against the ready-to-run sold through the big chain and department stores. If the hobby shop goes, model railroading would have lost much.

Rev. Norman B. Nelson
Spokane 27, Wash.

• *You've posed some interesting questions and you may rest assured that the industry is watching with great interest all current trends. Incidently, there are many good, new kits available, the bulk of which are available to your dealer. Ed.*

Hot Cha Cha Cha

In your issue of Jan. 1956, I noted an article dealing with the Americanization of a Fleischmann electric type locomotive. Several months ago I made this change to U. S. appearance on a No. 1335 but my method differs from the one outlined by Mr. Kemp.

To make this change I used one Varney pilot No. 1846 and one Mantua switcher pilot No. 3673. I installed the Varney pilot on front and the Mantua pilot on the rear (considering the end without lights as the rear). The procedure is as follows:

1—Take out trucks recommended by the manufacturer, and take out both truck frames.

2—Take out buffers, pocket end sill plates, couplers, and spring wires, leaving completely empty the front ends of the truck frames.

3—Before attaching the pilots it is necesary to transform them with files. The Mantua pilot must be filed leaving only the pilot beam and steps. The Varney pilot coupler pocket must be widened to permit free movement (in this case) of the Mantua coupler loop. Drill on the pilot beam, 1-72 holes and clear to allow 1-72 screws to go through. These holes must be located 8.5 mm. sideways from the center line of the pilot beam, so they will coincide with the existing truck frame holes. The Fleischmann pocket end sill plate can be used as a template to locate the drills on the pilot beam. These holes already existing on the front of the truck frames are 1-72. Attach to the front end of truck frame with two ¼" 1-72 screws. There is no need for tapping 2-56 as Mr. Kemp says.

4—Cement Mantua pockets on both pilots, taking care that the rear hole hole of the pocket coincides with the hole existing on the platform of the truck frame. These holes have clearance for 0-80 screws.

5—Wrill 0-80 on the place where the front hole of the pocket is and attach pocket with ½" 0-80 self tapping screw. File end of screws appearing on other side.

6—On the Varney pilot attach the coupler loop with ⅜" 0-80 self tapping screws and nut (head of screw up, nut down) and when the loop has the proper height put a drop of cement on the nut and it will stay in place.

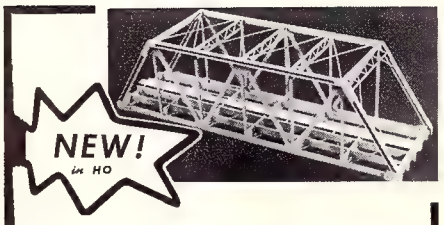
7—On the Mantua pilot, attach coupler parts as outlined in No. 6 A Lindsay bell on the roof, plus horns, headlight, and other refinements I think would be fine and more American.

José M. de la Torre M.
Felton, Oriente, Cuba

CHANGE OF ADDRESS: Send your new address at least 30 days before the date of the issue with which it is to take effect. Address

RAILROAD MODEL CRAFTSMAN

RAMSEY, NEW JERSEY



DOUBLE TRACK TRUSS BRIDGE

Kit No. 764—$5.65

Realistic detail and authentic design as used on railroads for many years. Precision-milled shapes, pre-cut for easy template assembly into a modern bridge 125 scale feet (17 inches) long, or it can be shortened to 103 feet. To be used with Tru-Scale or Atlas track.

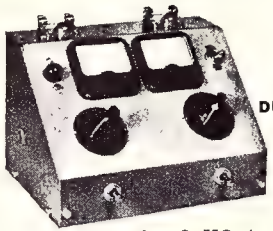
15c in coin brings 16-pg. Manual-Catalog. Send post card for quick-reference folder.

AYRES SCALE MODELS

925 N. Santiago Ave., Santa Ana, Calif.

BEFORE YOU BUY ANY POWER PACK . . . SEE AND COMPARE THE NEW

PACER PACKS



DUO-PACER
$ 34.95

Super-power for 2 HO trains. Capacity 2 a. plus. Full 12 v. D.C. for each train. 16-32 v. A.C. for lights, accessories. Two meters indicator lights, two speed controls, power and reverse switches, fuses.

DEALER and JOBBER INQUIRIES INVITED

Bergen Electric & Products Co.
BOX 296 RIDGEWOOD, N. J.

Baldwin Model Locomotive Works

Mfrs. of Scale "O" gauge Locomotives & Precision Switches
See our September '55 ad

Information on Request

P. O. Box 1225 Greenwich, Conn.

COMPLETE KIT NO. 315A TEXACO $2.45
COMPLETE KIT NO. 315B REPUBLIC ...$2.45
COMPLETE KIT NO. 315C SHELL $2.45

See these Miles-Ahead Mantua Kits at your dealers today.

FINEST OF THEM ALL

There are some pretty good HO Tank Cars to be had—but none to equal Mantua's. Look at them and you'll agree. The new Mantua Tank Cars are the very last word in realism—detail—fool-proof assembly. Each kit includes free-swinging Tyco Trucks complete with Mantua Automatic Couplers.

MANTUA
FIRST IN HO

ULRICH

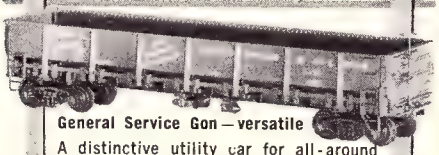
"Precision Toys for Men"—Real Railroading in ½ the time

For you who love real railroading, HO style, **Ulrich** is the realest thing since the real thing! And for you who don't have all day to fuss with precise detail, **Ulrich** kits give you distinctive, accurate styling with ½ the usual work on your part. All-metal . . . pre-painted and lettered . . . wide selection . . . popular road names . . . simpler assembly . . . all this with **Ulrich**, the greatest name in HO accessories. At hobby dealers everywhere.

ULRICH's Gondola family

Composite Gon—an eyecatcher

HO's big value! It's l-o-n-g, a true prototype of wood and metal, with sprung trucks, complete side and brace detailing. Buy several from these road names: AT&S, Pennsy, NYC, RI, Norfolk & Western, Lehigh Valley. Price just **$2.50**



General Service Gon—versatile

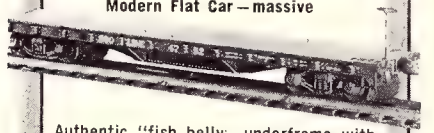
A distinctive utility car for all-around service, and an unusual touch on any layout. Finished die-cast construction, with 8 operating drop doors. Road names: SP, UP, SOO Line, Utah Coal, GN, M&StL. **$2.90**

ULRICH's Flat Car family

Truss Rod Flat—spectacular

The honorable old-timer with exceptional wealth of complex-looking detail—yet easy to assemble! Rods, turnbuckles, stake pockets, couplers, wood floor. Road names: Nashville, C&StL, SP, T&P, CP, SOO, StLSW. **$2.35**

Modern Flat Car—massive



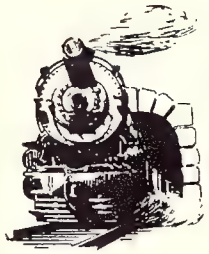
Authentic "fish belly" underframe with complete rivet, gusset and angle detail, wood floor. With **Ulrich** you spend minutes, not hours, on accuracy. Road names: same as Truss Car above. **$2.25**

PRECISION HO TOYS FOR MEN

Send 10¢ for 1956 illustrated color catalog of complete railroad line to

ULRICH *Model kits*

4233 Babcock, North Hollywood, Calif.



DISPATCHERS' REPORT

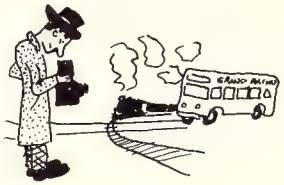
LOBAUGH has a new series of turnout kits for O gauge scale using .172 rail. Available in either No. 4 6, or 8, the kits include cast bronze frog, guard rails, and points. No filing of stock rail necessary and very little required on castings. Full size blueprints are included. Kits will be $2.75. . . . The Toy Information Bureau all hepped up about trend toward plastics in the do-it-yourself field which will climb up to the $30,000,000 retail sales volume this year. Figure includes airplane, boat, and other kits as well as railroad . . . Paul Lindner, new exec. V.P. at John English & Co. . . . York Miniature Railroad Club rents lockers at buck a year to members. The York club is the spunky outfit which said phooey to constant evictions and went ahead, building it's own place . . . Some of the York club members were pitted against members of the Lancaster MRRC in a quiz show over WGAL-TV recently . . . Western Hills MRRC of Cincinnati had an auction of model railroad equipment . . . Ben W. Heineman, a Chicago attorney has two types of trains, an O gauge setup in his home and a 48½" gauge setup spread out over 9 states and called the Chicago & North Western . . . Robert F. Smith, the old Boondoggler from the O gauge Golden Valley Lines has been appointed Publicity Director for the NMRA National Convention to be held in August at the Twin Cities. Bob says this'll be a real knock down and drag out affair. Make Minneapolis your vacation city for Fifty Six . . . Virginian Railway has given up all passenger service.

Bill Krieg, of Trenton, makes interesting simulated flagstone walks by first painting the sidewalk gray, then adding spots of blue, red, and yellow. . . . Regarding indexes, we are at present unable to supply any indexes for any year . . . Albert E. Schrader, of Trenton, N. J., has purchased all patterns, molds, jigs etc. for the HO gauge George Stock GG-1. When released, the Schrader GG-1 will be twin DC-60 powered and completely reengineered. In full scale form, the GG-1 is an engine hard to beat for sleek beauty and power. It's all locomotive . . . Irene Lewis, of Little Engines, seen recently on the Groucho Marx TV show.

At Grand Rapids

The Grand Rapids Trade Show and Convention for the hobby industry provided a number of interesting sidelights . . . a number of model railroad manufacturers flew in, couldn't get out again because all flights were grounded. Conversely, we went out on the Wolverine; were joined at Albany by a Boston Pullman connection which had Paul Guillow, of model airplane kit fame aboard . . . NYC dining cars still offer top notch chow . . . we'll have to model the "Cascade Torrent" sleeper . . . NYC operates an RDC-2 from Jackson, Mich. to Grand Rapids; hits speeds up to 70 on the 95 mile stretch. On the return run, the Budd car is coupled to the Chicago-New York "New York Special" as far as Detroit . . . Grand Rapids has two stations. One used by the New York Central, C&O Pere Marquette, and during the summer by the Pennsylvania. This Union Depot has a four track train shed that's open on both sides and swell for pix. Grand Trunk Western, still using steam, chugs into a modern station two miles away. The old GTW station, in the heart of town, still stands but no longer has any tracks. GTW diesels are imminent.

There are a number of ways to get into Grand Rapids by rail. New Yorkers usually come via New York Central; could also take Lehigh Valley-Grand Trunk, or any line to Detroit and then C&O . . . Clark Johnson Jr., of Leyghton-Paige, brought along his Graflex, went home with some good GTW steam pix. So did we . . .



Long rail trips really give you the urge to model the things which you see. Like the prototype for the Alexander coaling station that looks just like the model . . . or the blue, yellow, and silver C&O coaches . . . and those Pennsylvania "Don't Stand Me Still" box cars. Wonder if the Pennsy will put "The Train Is All" on their cabooses? . . . The Model Industry Association has officially changed it's name to the Hobby Industry Association of America, since many of the members are in related crafts hobbies . . . Newly appointed executive director is Wm. MacMillan Jr., of New Jersey.

If they could ever make radio control units small enough, watch out for Ulrich. One of the eye catchers at the Grand Rapids show was a one inch scale tractor trailer, radio controlled by Babcock. Imagine how many model pikes might be converted to trucks only if Ulrich ever brought out HO radio controlled highway trucks! At that his trucks are beautifully detailed but we like 'em best mounted on flat cars . . .

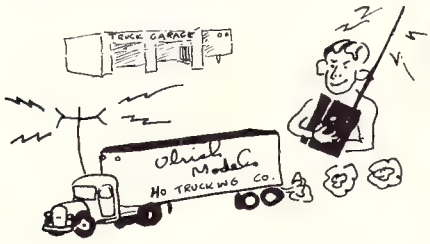
Who has the biggest HO club layout in the country? And the biggest private HO layout? And what about the biggest layouts in TT, OO, S, and O.

gauge. Let's hear about them . . . O gaugers, hear this. Coming from Central Locomotive Works, a mammoth 4-8-4, to be followed by a completely re-eingineered Pennsy H-10 2-8-0, formerly sold under the Saginaw label. . . . Before WW2, the Saginaw Pennsy engines really had O gaugers wild. There were three locos in the line; the H-10 2-8-0, a G-5s 4-6-0, and an E-6 4-4-2. Perhaps the others will also be revived if the H-10 proves sufficiently popular . . . We warned you O gaugers that things were beginning to stir again. Watch for some more good news soon, too . . . S gauge is also due for a shot in the arm.

Here's a hypothetical question. If there were to be only one model railroad gauge and scale, what would it be? Would it be HO, by weight of scale numbers. Or would it perhaps be OO or S gauge, as a compromise?

Couplers

Manufacturer's Section of the HIAA has set up two committees to work on the HO coupler problem. The first committee will attempt to bring about a standard coupler pocket. The second is working on a standard coupler for HO gauge. The feeling in many quarters seems to favor prompt action on the coupler pocket since that would leave the modelers and manufacturers free to use whatever coupler they might to the industry free of royalty right . . . Watch for a new automatic HO coupler with a knuckle design from an old time model railroad manufacturer not now making couplers. Could be ready this fall . . . O gaugers getting a big chuckle out of the HO coupler situation. Auto-couplers in O gauge scale never really caught on although the Walthers design is used by



a number of modelers and really proved itself at the 1939 New York World Fair. Most O gauge cars are equipped with dummy knuckle couplers with the better equipment getting working knuckle AAR design couplers. O gauge trains are made up more nearly like the real thing than in HO. In O gauge, a trainman couples the car together while in HO, the operation is often done by remote control . . . O gauge two-railers should investigate the new nylon dummy couplers by All-Nation. It licks all insulation problems with metal framed cars and when double heading . . . Meanwhile HObbyline will switch to NMRA couplers this season and all indications are that they will be joined by another big maker . . .

TROLLEY TRUCKS

Custom constructed, track tested, variety of wheelbases, wheel sizes, gear ratios, DC motor or AC motor, 16 stock sideframes, O gauge, $16.50 to $21.75.

WAGNER CAR COMPANY
59 Euclid Avenue, Cincinnati 15, Ohio

SPRING CLEARANCE
Ready to Run—Track Tested—Spray Painted

Bowser Articulated	$59.95
Penn Line K-4 Pacific	36.95
Bowser K-11 Pacific	34.95
Mantua Pacific	32.95
Penn Line E-6 Atlantic	32.95
Varney Casey Jones	27.95
Varney EMD Diesel Switcher	24.95
Globe F-7 Diesel "A"	12.95

Locos repaired and rebuilt
Send check or money order to
BILT-RITE MODELS COMPANY
P. O. Box 113 Ridgewood, N. J.

Keep abreast of the times; get the latest building ideas, hints and projects by subscribing to Railroad Model Craftsman.

SD-9 EMD Road switcher by Tenshodo, entirely new in design, in quality and in operation. Heavy sheet brass construction, elegantly detailed, both trucks powered, double operating headlights, illuminated number boards, zamac pilots, gear boxes and truck frames, husky motor, beautiful, durable, authentic colors—when Tenshodo builds it you can be proud of it. Now available in GN, PENNSY, UP, SP, C&NW, MILWAUKEE, B&O and CB&Q. Takes almost any coupler including NMRA, and at a price for any pike.

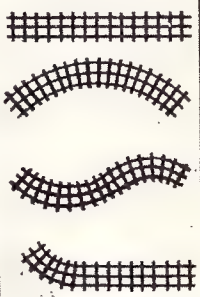
Tenshodo
THE MARK OF QUALITY

Built, painted, ready-to-run, *only* $33.95
From leading dealers everywhere or

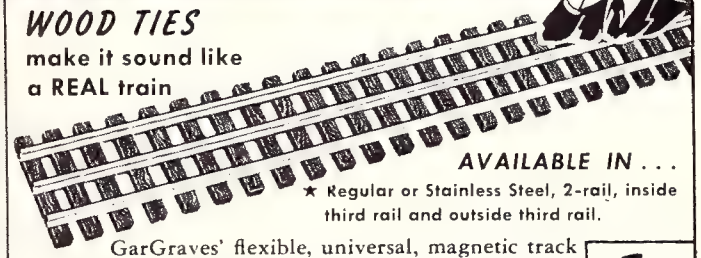
Order now! AT BETTER DEALERS EVERYWHERE or post paid direct from PFM.
PACIFIC FAST MAIL
P.O. BOX 57 EDMONDS, WASHINGTON

SCALE & TINPLATE TRAINS
now arriving on . . .
GarGrave's UNIVERSAL FLEXIBLE TRACKS

BENDS TO ANY CURVE



WOOD TIES
make it sound like a REAL train



AVAILABLE IN . . .
★ Regular or Stainless Steel, 2-rail, inside third rail and outside third rail.

GarGraves' flexible, universal, magnetic track mates with ALL 0, 027 and 072 gauge track. Constructed of steel rail, 3/16" high, with accurate scale wood ties. Patented construction eliminates spike heads, permits tinplate locos to run perfectly on scale track.

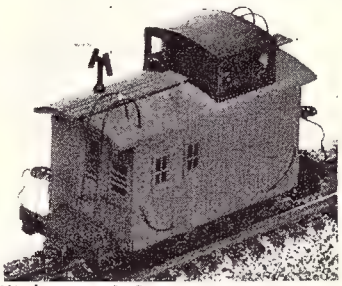
NEW: "S" gauge trackage and switches . . . 3 rail "O", "0-27", "0-72" 90° crossovers and switches.

Free Send 3c stamp for complete GarGraves trackage facts."

SEE YOUR DEALER OR WRITE TO . . .

Gardner, **"THE TRAIN DOCTOR"**
RAILROADING IS OUR BUSINESS—NOT A SIDELINE
2261 DEWEY AVENUE—ROCHESTER 16, N. Y.

HO Honey! Transfer Caboose



CLIFF LINE

Kit has wood floor, roof and sides, (scribed & painted red or gray); die cast windows, modified Taylor 4 wheel trucks . . . complete. $2.75. Cliff's Famous Depressed Center Flat Car. HO. complete kit $1.95

See your dealer or send Stamps for Literature.
Box 322, Station 1 North Hollywood, Calif.

BUILD YOUR BRIDGES, TRESTLES, TOWERS OF METAL FOR REALISM—
— use —
MODEL STRUCTURAL SHAPES OF BRASS

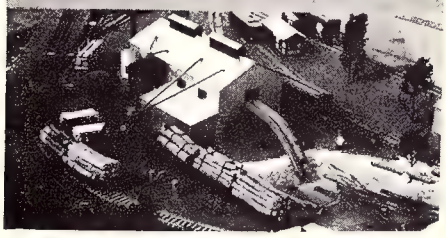
ANGLES — CHANNELS
H COLUMNS — TEES
ZEES — I BEAMS
Flat, Round & Square Bars—Sheets

Manufactured by
SPECIAL SHAPES CO.
4817 LINSCOTT ST.
DOWNERS GROVE, ILL.
At your dealer or write for price list

LOBAUGH
MICROMETER PRECISION

Standard of the World in "O" Gauge
For smooth running, durable, heavy duty locomotives in ¼ inch scale.
Catalog .25
LOBAUGH
SCALE MODEL CO.
P.O. BOX 901 San Mateo, Calif.

Realism plus with SUYDAM Model Building Kits



LUMBERING—MINING—INDUSTRY—STORES
RR STRUCTURES—HOUSES
Over 40 different kits to choose from. Ask your dealer—or send 3c stamped No. 10 envelope for circulars.

E. SUYDAM & CO.
BOX 55 DUARTE, CALIF.

Want special lettering or a special herald for your railroad? William K. Walthers makes almost anything you might need in any size, color, form, or shape . . . If the Brooklyn Dodgers win the National League pennant in 1956, a certain model railroad editor's O gauge railroad will acquire an O gauge Walthers observation car. Bruce Walthers highly indignant at our referring to his Milwaukee Injuns as the Boston Braves . . .

Dismantling of the NYSME Union Connecting Railroad scheduled for mid-March. Future club location still undecided. Some members would like to build . . . Best visual selection of model builders tools we've seen in a long time is the display case at Carmen Webster's Model Railroad Equipment Corporation store in New York. The same store also has scale O gauge window display that'll make O gaugers think the good old days are back and almost everything shown is recent merchandise . . . A number of gals in this model railroad business . . . Mrs. E. A. Gardner, of Gargraves track . . . Bobbye Hall, of Hall's Hobby House in Dallas . . . Many more . . .

Trix HO trains due for some publicity . . . Binkley's HO New Haven box car hottest thing on the shelves today in a craftsman type kit. It comes in two colors, both authentic and striking . . . Last of New York's Third Avenue Elevated Railroad has been dismantled. Third Avenue doesn't look the same. We rode the last train last spring . . . Clever gimic is the golden spike for your lapel available from America's Hobby Center . . . Rock Island's new Talgo train has a television camera set in the nose, TV set in the lounge car. The result is that the lounge car is so crowded you can't get in. Gives the feel of a real cab ride. Tyco has a Talgo train coming up this winter. Cars are articulated . . .

The real railroads have about 1,735,000 freight cars, 33,000 passenger cars, 29000 locomotives . . . cleanest and best kept street car line we ever saw was the Memphis Street Railway System. Cars were green gray, orange, and cream.

Toy Fair & Late Flashes

Both Lionel and American Flyer coming out with briliant red, black, and white New Haven double ended electric loco, in O and S gauges respectively . . . Other Lionel items include Sound Dispatching Station, Operating Lumber Mill, Burro Crane, Track Cleaning Car, 16 wheel depressed center flat car, Budd RDC-1, and more . . . from Gilbert's AmericanFlyer line a new Baldwin diesel switcher, New Haven Alco diesel, box cars for NYH&H, CG, B&O, Smitty the Walking Brakeman Box Car and more . . . a new HO ready to run line will hit the market in July by a new manufacturer in railroading . . . Advance Molding cars now available separately. These are the plastic oldtimers; have been joined by a baggage and combine . . . Ayres with a new all wood double track truss bridge

Mention was made in the March 1956 Test Track review of the Pittman Bride & Groom, of a new Tomlinson coupler. While the use of nylon is new, the coupler itself is a modification of the Tomlinson coupler developed by Pennsylvania Scale Models for use on their traction equipment.

CORRECTION

The prices in our April 1956 RAILROAD MODEL CRAFTSMAN ad should have been as follows:
GP-9 Painted, ready-to-run.....$33.95
GP-9 Kit, unpainted..... 29.95

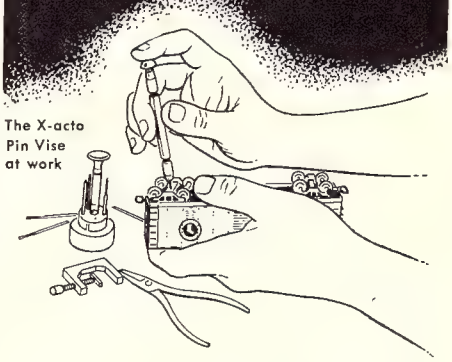
PACIFIC FAST MAIL
P.O. Box 57 Edmonds, Washington

DON'T RUIN YOUR MODELS WITH A BAD PAINT JOB... JUNE RMC TELLS HOW

'HO' ALCO 1600 HP DIESEL ROAD LOCOMOTIVE KIT
All Metal Construction!
Power unit is fully assembled, track tested and ready to run.
PRICE $13.95
★ ★ ★ ★
WRITE FOR ILLUSTRATED LITERATURE
☆ **LINDSAY PRODUCTS**
11601 W. Jefferson Blvd.,
CULVER CITY, CALIFORNIA

There's a precision-made **x-acto tool** *for every MRR job!*

From HO to O . . . for building and repair of cars, track, scenery, structures . . . X-acto tools put more skill at your fingertips. Designed by craftsmen and produced to highest quality standards, they help you to do better, faster, more professional work.



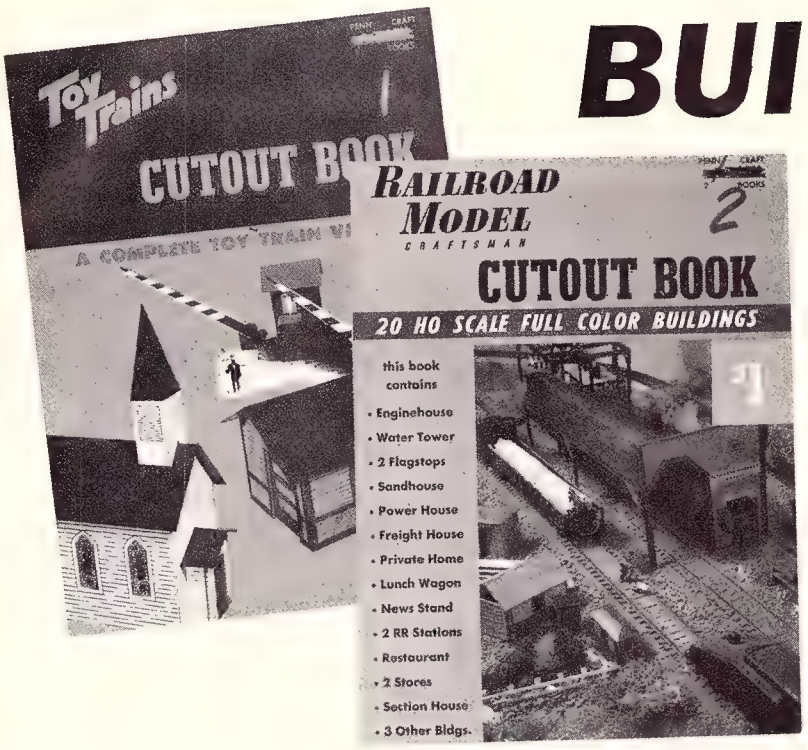
Razor Saws • Files • Screw Drivers • Drills • Saws • Pin Vises • Hammers • Clamps • Pliers • Sanders • Spoke Shaves • Planers • Balsa Strippers • Knives. Singly and in sets, 10c to $30.

Complete details in 28-page catalog — only 25c

x-acto Inc.
48-65 Van Dam Street,
L.I.C. 1, New York

20 HO BUILDINGS

for only **$1**



PENN CRAFT BOOKS

The fastest moving model railroad books in years, every page in full color!

ADD LIFE TO YOUR MODEL LAYOUT

ALL YOU HO GAUGERS

Now you can fill up all of those bare spots on your layout for only one dollar. The RMC Cutout Book contains a whole town of buildings and you'll be able to use every single one. This is the BIGGEST dollar's worth in model railroading today!

YOU S AND O GAUGERS, TOO

If you're in S or O gauge, send for the Toy Trains Cutout Book which is scaled especially for your gauges. There aren't quite as many buildings because they're bigger but where else can you get 14 buildings for a buck! A terrific value.

TREMENDOUS VALUE

PRINTED ON HEAVY CARD STOCK

ON SALE AT HOBBY SHOPS . . . OR USE THIS COUPON AND ORDER DIRECT

→ → →

PENN CRAFT BOOKS
Ramsey, New Jersey

Please send me the colorful new Penn Craft Cutout Books which I have checked below. I enclose $ ..... in check or money order. I understand that if I am not completely satisfied I can return either book within 5 days for full credit.

☐ RMC CUTOUT BOOK
20 HO SCALE FULL-COLOR BUILDINGS

☐ TOY TRAINS CUTOUT BOOK
A COMPLETE TOY TRAIN VILLAGE

NAME .....

STREET .....

CITY ..... ZONE STATE

Please add 10c postage for each book ordered

O GAUGE

Worthington Feedwater Heater ... $1.00
Worthington Cold Water Pump ... .95
Pyle Nat'l MO-6 Generator ... .85
Nathan Straight Boiler Check Valve ... .75
Coming soon—Worthington BL-2 pump (S.P. TYPE) $2.00

WESLEY MANUFACTURING COMPANY
6045 Allott Avenue Van Nuys, Calif.

LIONEL TRAINS
with
MAGNE-TRACTION

THE LIONEL CORPORATION • 15 East 26th Street • New York 10, N.Y.

TOM THE TELEGRAPHER
(Trade Mark) Patented

Only $2.95
A real 3 way Telegraph Instrument
No R.R. is complete without a telegraph

Send real code when train is running.
E-Z to learn code from your running train. Pat.

Herman Enterprises

P.O. Box 149 Copr. 1955 **Villa Park, Ill.**

MODEL BY MAIL
Kits - Parts - Structures - Accessories
Shipped at *Published Prices!*
No Minimum HO-S-TT Gauges
On Orders Less Than $2.00 add only a dime for postage
MODEL RAIL DEPOT
16324 Hawthorne Blvd. Lawndale, Calif

MODEL RAILROAD TIMETABLE

Conventions

TRENTON, N. J., May 5-6. Joint convention NER-ME NMRA regions. Stacy-Trent Hotel. Fan trip, drawbar contests, banquet, breakfast meeting. Details from chairman J. Cecil Matthews, 1000 Edgerly Rd., Glen Burnie, Md.

OTTAWA, ONTARIO, May 11-13. NFR NMRA spring convention. Hdqtrs at Chateau Laurier. Fan trip, steam, large and small. Model contest. J. A. Houde, publicity director.

DETROIT, MICH., May 19-20. NCR NMRA spring convention. Shelby Hotel, with 4 host clubs. O, HO, trolley. D. H. McCormack, publicity chairman, c/o Detroit Historical Museum, Woodward & Kirby, Detroit 2.

PARKERSBURG, W. VA., May 19-20. MCR NMRA spring meeting. Hotel selection not determined at press time. Details from Samuel Hyle, 400 Cochran Rd., Pittsburgh 28, Pa.

PUBLICITY CHAIRMEN: News of any show, convention, or new club is welcome. Copy for July issue must be received at Ramsey, N. J. editorial offices by May 10th. Copy for August issue by June 10th. The June issue has already closed.

MENLO PARK, CALIF., May 27, 1956. Coast Div., PCR NMRA, Quarterly meeting. Hosted by West Bay Model RR Assn., 1090 Merrill St. Business meeting 2:30 PM, operation 10 AM-6 PM, O, S, HO Gauges. All Model Rails welcome. J. E. McKirachan, Publicity.

MINNEAPOLIS, MINN. Robert F. Smith wants everybody to know that the NMRA National Convention will be held in the Twin Cities in August. Says he, bring the wives and kids and while they're out looking at the flour mils, you can be having a bang up time at the convention. A big show is in prospect. Further data from Bob himself, Publicity Director, 5240 Washburn Ave., Minneapolis 10.

Club Notices

NEW BEDFORD, MASS. N. B. Society of Model Railway Engineers, formerly the N. B. Engineering Society, now meets at 717 South Water Street, Tues. and Sat., 7:30 PM. Louis V. Cotnoir, pres., Dr. J. F. Dias, Jr. Secy-Treas.

EDMONTON, ALBA. East Edmonston S. M. E., 11519-89 St., is looking for members, HO and O. Visiting type club, al members have layouts. Write Al Fawcett, president.

DETROIT, MICH., new traction club, Detroit United Railways Club, HO. Meets 2nd Tuesday each month 7:30 PM. Contact Bazil Motoligin, pres., 19347 Albion, Detroit 5. Phone LA 7-6747.

HAZLETON, PA., new club being organized. Contact "Mike" at Hobby Haven or Dr. A. V. Anderson, 2 E. Green St., Hazleton.

PEABODY, MASS. Eastern Mass. M. RR. A., Charles Alexander, Jr., Pres. Meets at 23 Kingdom Terrace, time and gauge not stated.

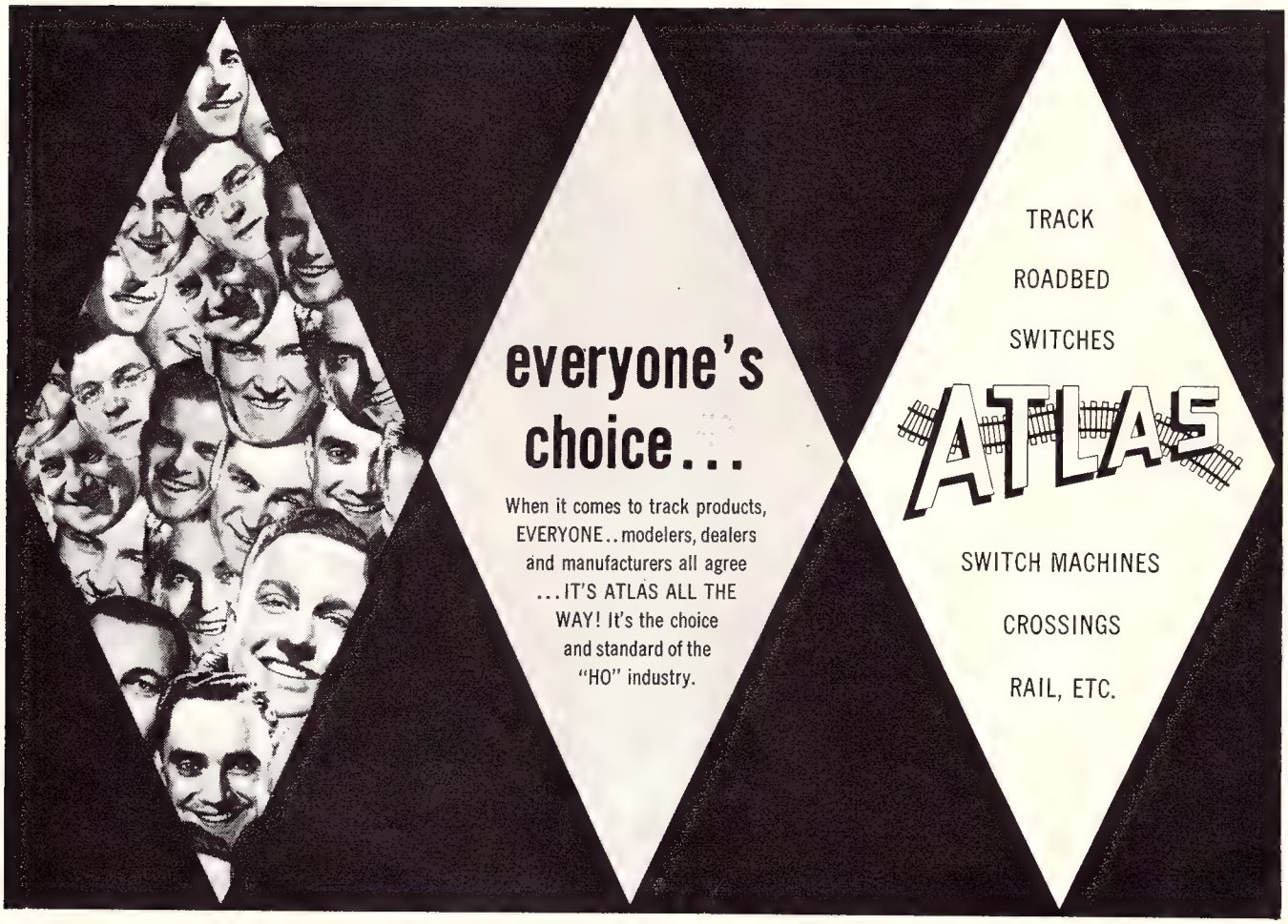
New Catalogs

MAY GRAY. Catalog 56-A, O gauge, 21 printed pages, 8½x11. Lists entire Gray Perfection line of Japanest imports with large photos showing all detail. Included are the 2-truck shay, ATSF 4-8-4, C&O 2-6-6-6, NYC R-2, PRR 2-10-0, SP 4-8-8-2 class AC-12, GP-7, and BLH Sharknose. Also many freight and on-revenue cars. Price 50c, Max Gray, 1800 Burnside St., Portland 14, Oregon.

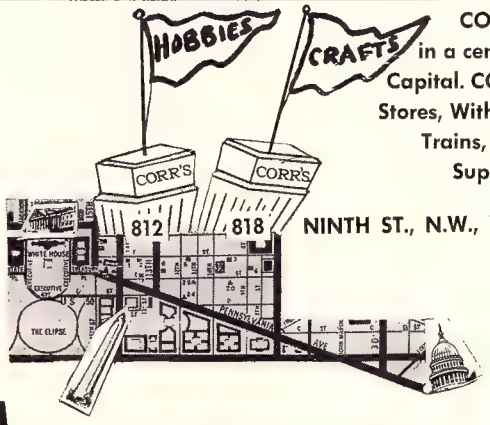
WALTHERS HO CATALOG. Substantial revision over the last (1954) catalog. Dividtd as follows: Information, Power, Rolling Stock, Right Of Way, and Electrical. Strong on car parts, passenger cars and traction. Large introductory section on HO gauge. 8½x11, plastic bound. Price 50c, William K. Walthers, Inc., 241 E. Erie St., Milwaukee 2, Wis.

WALTHERS O CATALOG, 1956 Edition. Similar to the HO catalog but for ¼" scale and includes large section on freight cars. Price 50c, minor revisions over 1955 version. William K. Walthers, Inc., 241 East Erie St., Milwaukee 2, Wis.

WALTHERS DECAL CATALOG, 1956 Edition. 30 pages 8½x11. Complete revision. For HO and O. Decals for 140 major railroads. Also stripes, alphabets, signs, other details. Special private decal service Decals for circuses, RDC cars, diesels, structures, etc. Price 25c, Wm. K. Walthers, Inc., 241 East Erie St., Milwaukee 2, Wis.


everyone's choice...
When it comes to track products, EVERYONE.. modelers, dealers and manufacturers all agree ...IT'S ATLAS ALL THE WAY! It's the choice and standard of the "HO" industry.
TRACK
ROADBED
SWITCHES
ATLAS
SWITCH MACHINES
CROSSINGS
RAIL, ETC.

CORR'S
of WASHINGTON



CORR'S of Washington, located in a central position in the Nation's Capital. CORR'S Houses Two Complete Stores, With Military Miniatures, Model Trains, Model Ships, And Complete Supplies for the Hobby Crafters.

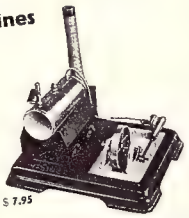
FLEISCHMANN 4-6-2 HO LOCO
All metal, ready to run. Headlight, valve gear. Beautiful detail. Length over 12" with tender.
PRICE $23.50

HO SPECIAL ASSORTED SIZES
5 painted HO Mountains with trees. Reg. $10.95
SALE $6.49

ESBIT DRY FUEL 20 tablets for 49c.

Fleischmann Steam Engines

No. 1031/0 Steam Engine. Upright boiler with oscillating cylinder. Boiler diameter about 1¾ inches. Fired with Esbit dry fuel. Height including chimney about 8¼ inches.
$ 4.95



No. 1201 $ 7.95

No. 1201/1 Steam Engine. Brass boiler stained blue. Boiler diameter about 1¾ inches. Oscillating cylinder. Sturdy firebox housing for Esbit dry fuel. Safety valve. Steam whistle. Grooved flywheel. Metal base about 6 x 7 inches. Height including chimney about 7 inches.

NEW MANTUA 8-WHEEL CABOOSE
COMPLETE KIT NO. 316 $3.25

Fleischmann HO

No. 1340/2 Passenger Train with Diesel Locomotive. Consists of: Diesel Locomotive No. 1340, 1 baggage car No. 1422, 1 coach No. 1420, 12 curved tracks No. 1601, 1 straight track No. 1600/2, 1 terminal track No. 1600/2 K. Length of train about 28 inches.

SPECIAL
MATCH BOX SERIES

No. 1	Diesel Road Loader	50c ea.
No. 2	Dumper	
No. 3	Cement Mixer	NOT MADE
No. 4	Tractor	
No. 5	Double Deck Bus	IN HO SCALE
No. 6	Quarry Truck	
No. 7	Horse Drawn Milk Float	BUT
No. 8	Caterpillar Tractor	CAN BE
No. 9	Fire Escape	
No. 10	Mech. Horse and Trailer	USED ON
No. 11	Road Tanker	
No. 12	Land Rover	HO
No. 13	Wrecker	
No. 14	Ambulance	LAYOUTS
No. 15	Trailer Cab	
No. 16	Trailer Flat	
No. 17	Moving Van	
No. 18	Bulldozer	
No. 19	MG Sport car	
No. 20	Covered wagon 60c	

SPECIAL ALL GAUGE SLEEVE SWITCH REG. 50c SALE 6 FOR $1.49 LIMITED NUMBER

O OR 027 TINPLATE SIGNAL THREE LIGHT
REG. 3.95
SALE 2.39 ea.

Specials

O GAUGE DECAL SPECIAL
Box, Flat, Reefer, Gondola, Caboose, and Hopper
Reg. 40c SET. NOW 12 SETS FOR $2.39 our choice of above

Relay Switch Machines and Signal Motors SAVE Reg. $1.50 2 FOR $1.79
OUR CHOICE OF ABOVE

SPECIAL ALL GAUGE BELL CRANK REG. 35c SALE 6 FOR 99c LIMITED NUMBER

O Gauge Metal Car Sides
40 foot Reg. $1.25 set Sale
Our choice of names
Baltimore and Ohio
Southern Pacific
Union Pacific
Canadian Pacific
Northern Pacific
Nickel Plate
SOO Line
3 SETS FOR $1.99

HO GAUGE DECAL SPECIAL
Box, Flat, Reefer, Gondola, Caboose, Hopper
Reg. 30c set, now 12 sets for 99c, our choice of above.

SPECIAL PAINT BY NUMBER SETS CLOSE OUT
REG. $2.50
SALE $1.49 EA.

MORE for your money

O OR 027 TINPLATE SIGNAL TWO LIGHT
REG. 3.50
SALE 1.99

O GAUGE HAND CAR
REG 50c
3 FOR 98c

BLACK YELLOW ROOF BROWN GREEN BLUE ORANGE SOCONY RED
RAILROAD PAINT REG. 40c BOTTLE
6 FOR $1.29
OUR CHOICE OF ABOVE

Stocking a complete line of reliable model railroad supplies, equipment for your every need.

HO GAUGE MOTIVE POWER

Lindsay Products
Alco Diesel Road loco—
4 wheel
A unit with dual drive $26.50
A unit with single drive 19.75
A unit with dummy trucks 7.75
A unit casting set .. 4.95
B unit with dual drive 26.50
B unit with single drive 19.75
B unit with dummy trucks 7.75
Alco Diesel Road loco
6 wheel
A unit with dual drive 34.50
A unit with dummy trucks 12.75

PENN LINE

Midget Diesel Switcher	9.95
Midget Diesel Switcher Assem.	14.95
Atlantic with Tender	29.50
Consolidation with Tender	32.50
Pacific with Tender	34.50
Mikado with Tender	34.50
Decapoid with Tender	34.50
T-1 Articulated 4-4-4-4 with Tender	39.50

PENNSYLVANIA SCALE MODELS

PCC Street Car	16.95
IRR Street Car	22.50
Brill Suburban Trolley	17.95

Mantua Metal Products Co.

Reading Atlantic 4-4-2	47.50
8-Ball Mogul w/tdr. 2-6-0	29.50
Round House Goat 0-4-0	24.50
Belle of Eighties w/tdr. 4-4-0	29.50
Mikado w/tdr. 2-8-2	27.95
Shifter w/tdr. 0-4-0	15.95
General w/tdr. 4-4-0	24.95

SAVE SAVE

SPECIAL DUMMY COUPLERS
REG. 10c PR.
24 PR. $1:39

HO Gondola Special
REG. $2.00 VALUE

SALE $1.19 EA.
ASSEMBLED READY-TO-ROLL

If it's advertised in Railroad Model Craftsman, or any Railroader or any other literature and it's a reliable product at a fair price we have it in stock or it is not made!

HO FREIGHT STATION
REG. 49c
4 FOR $1.19

WHEN IN WASHINGTON PAY US A VISIT

HOW TO ORDER—Please send remittance in full by check or money order plus 10% for postage and packing. We do not ship C.O.D.

ORDERS SHIPPED SAME DAY RECEIVED. WE SHIP FROM STOCK WE ADVERTISE ONLY MERCHANDISE THAT IS ALREADY ON OUR SHELVES

CORR'S (Use separate paper for additional orders)
812-818 Ninth St. NW—Dept. MC
Washington 1, D. C.
Gentlemen:
Please send me:

☐ Ships and Historical Models Catalog; 25c
☐ New Military Miniatures Catalog; 35c

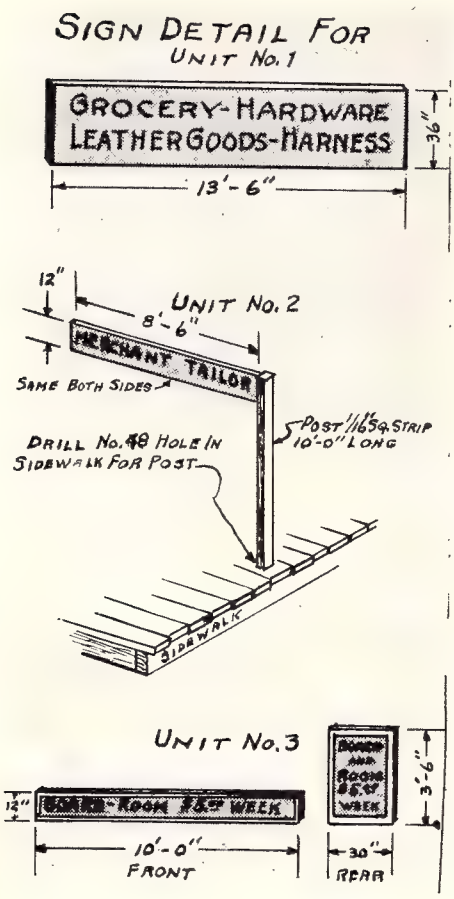
Enclosed

Name
Address
City State

SATISFACTION GUARANTEED OR YOUR MONEY BACK

OLD CHEYENNE

Capture the glory of the old West on your model railroad with this authentic replica of Cheyenne as it appeared in the days of diamond stacks, hoop skirts, and iron men. It's easy to build.



WYOMING, Old Cheyenne, (1870) in all its glory. This treatise, consisting of eight small business establishments, which includes a few of the main structures in existence at that time, is just a little too much subject matter to cram into one article. Thus, the project will be divided into three parts.

In 1867 the Union Pacific Railroad, attracted by mining strikes, was pushing its way across the southern part of Wyoming.

Fur trappers and prospectors antedated the railway and these people settled around small mining camps and army posts, for a time at least.

The actual building of the railroad was constantly harassed by Indians. They would attack surveying parties and the construction crews, raid the camps, steal equipment, horses, food, and, wherever possible, kill the men. Every foot of the right of way was built under military escort.

General Dodge, with a unit of cavalry acting as military escort for an advance surveying party, located a division point of the Union Pacific Railway on Crow Creek as the 6th base and called it Cheyenne. This was in the Spring of 1867. About two miles north of the division point General Dodge immediately established a military post called Fort D.A. Russell, later known as Fort Francis E. Warren.

In July 1867 the Union Pacific Railroad laid out the townsite of Cheyenne. The building boom started, enterprising merchants stampeded the town for choice locations.

The seven frame business houses used for this three part construction project were among the first to be erected in the Cheyenne business district.

By 1870 Cheyenne had become a very prosperous community. The history of early Cheyenne was very similar to that of other thriving terminal towns situated along the Union Pacific Railway, crediting their very existence to the coming of the railroad.

Three small business establishments make up the substance of this article. Unit No. 1—The General Store; Unit No. 2—The Merchant Tailor; and Unit No. 3—The Two Story Rooming House.

The construction detail is ordinary and the dimensional drawings are in feet and inches to fit all gauges—the stripwoid notation is for HO.

A complete setting of Old Cheyenne will enhance and stimulate the aspect of any model pike.

Materials

Northeastern Milled Basswood is used throughout and the list is for all seven buildings in the Cheyenne layout.

Part I of 3 Parts

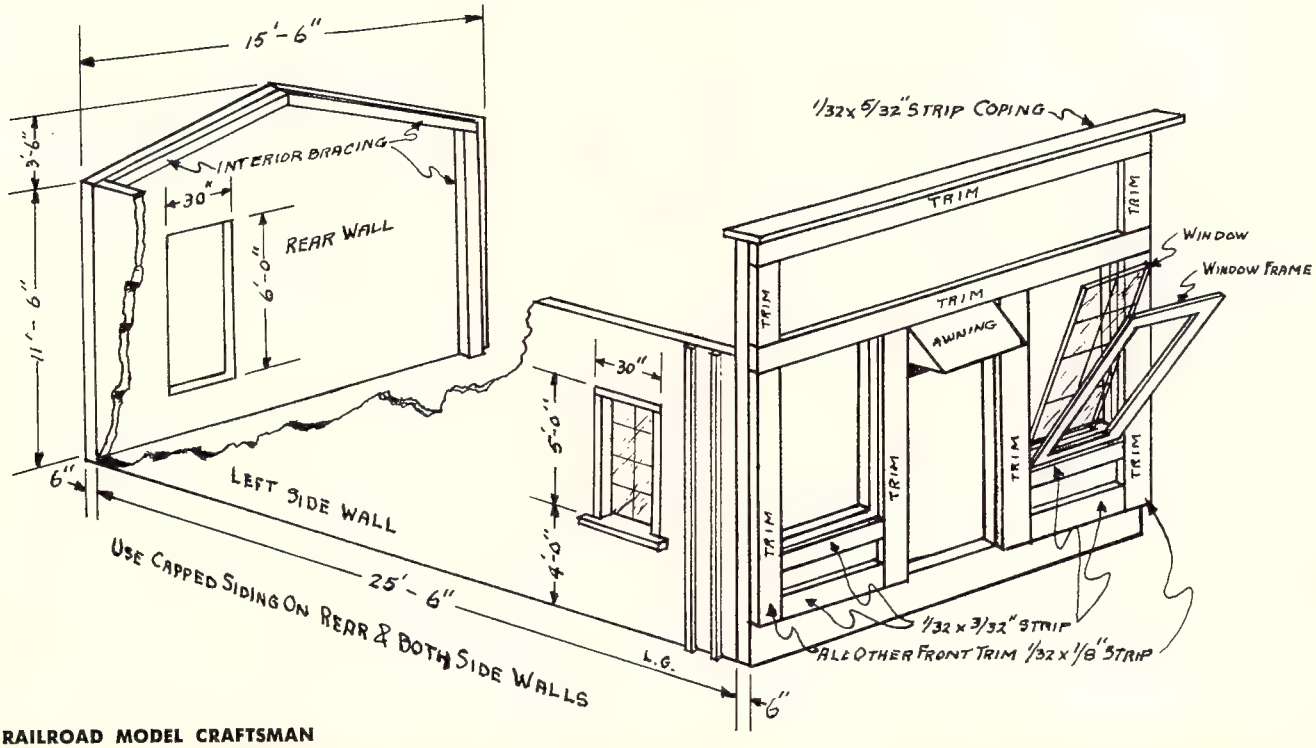
by Lloyd Giebner

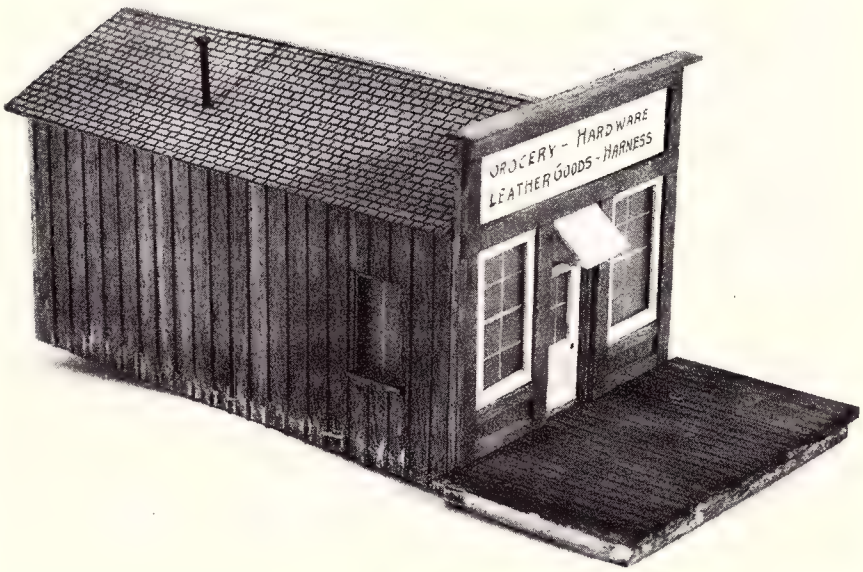
Staff Photos

Construction

Unit No. 1—Using the sheet of 1/16 inch thick scribed sheathing, with 1/16 inch scribed spacing, cut out the front wall piece according to dimensions. Add the front wall trim according to stripwood size and as illustrated. PEASE NOTE — The window opening is 3'-6" x 6'-6" and the window frame is 4'-" x 7'-0" therefore, a 3" margin is allowed between the window opening and the trim boards. This type store front is a little tricky to make up and precaution should be used when cutting out the front wall—your measurements must be precise, otherwise your window and window frames will not fit.

Cut out the rear wall (using the sheet of capped siding) according to dimensions—then place the rear wall up against the back side of the front wall and pencil mark the roof pitch.





Old time Western structures were marked by a simplicity of design that makes them popular modeling material. Detail is still plentiful.

Add the 3/32 inch square stripwiod interior to both walls as illustrated.

The side walls are made up of capped siding. Cut out both walls according to dimensions. Only the left side wall has a window. You can use more windows if you wish but the plan only calls for one window, which should be about four feet from the front wall. Trim for the side window and the rear door is 1/32 x 1/16 inch stripwood and the sill is 1/32 x 3/32 inch stripwood. Add trim to these two openings.

Make up the awning (use file card stock) as directed and ad it to the store front. Then paint the front white. Weather the white front with a little brush wash.

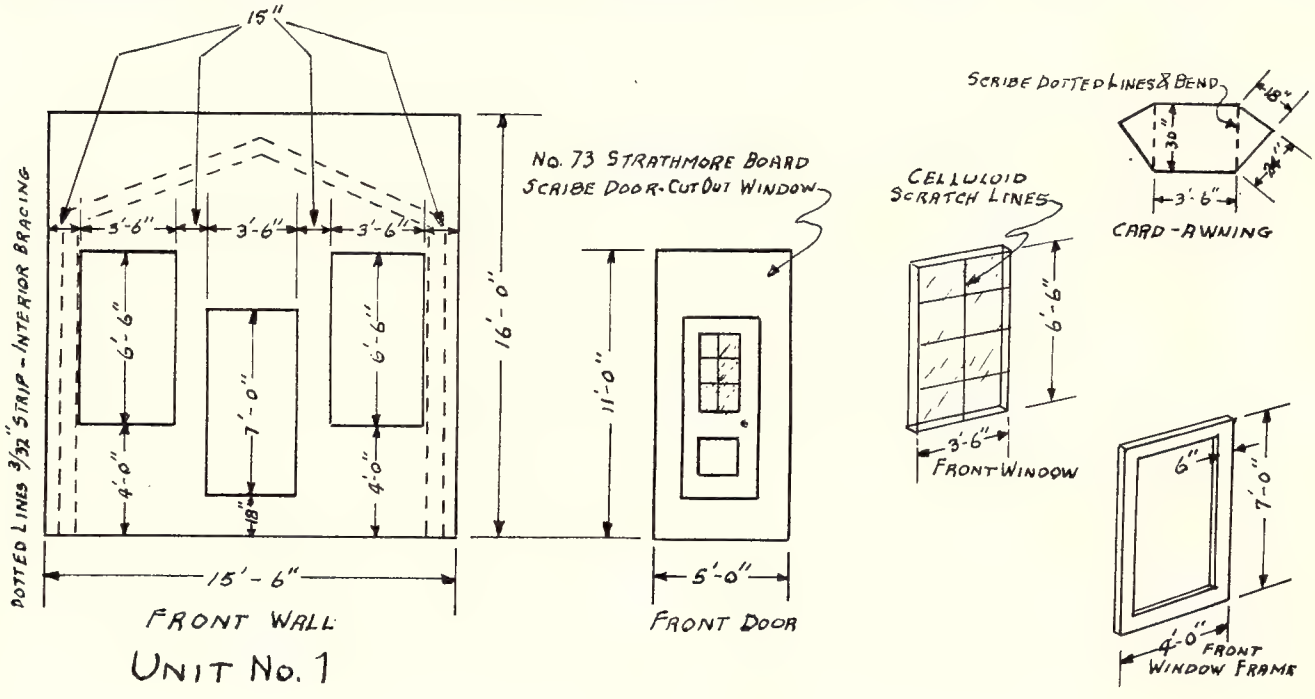
Weather the rear and both side walls with brush wash. Again I'll explain what brush wash is—"It's 410 M thinner in which you have washed the color from several brushes and becomes very dirty." It's the most effective and simplist method that I know of and looks realistic. Method of applying brush wash—run brush along top edge of the wall pieces and allow the liquid to run down the side of the walls, also apply liquid to bottom edge of the walls allowing it to run down the side of the walls—try it, you will like the effect.

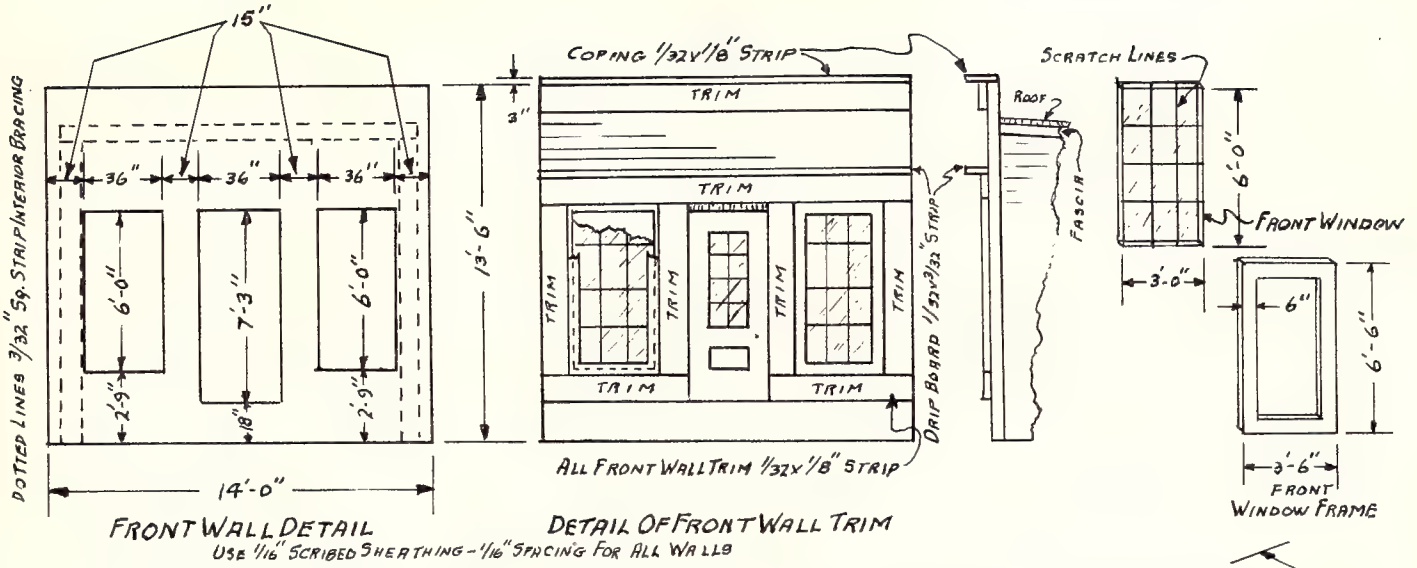
Now glue all four walls together and set aside to dry. Cut out the front door, the front window and the window frame according to dimensions. For the front door cut a piece of Strathmore board to size, then place it up against the door opening and pencil the door size on the Strathmore piece, scribe the door panel and cut out opening for the glass. Scratch lines on the celluloid piece for the window. Sand the inside surface to make translucent. Cut the front window frame from the No. 73 Strathmore board. Do not paint the door and window frame—weather slightly with brush wash.

Glue the front door in place, use glue sparingly on door and windows. Try-fit the window and window frame before gluing in place. NOTE—"The window fits in the opening and the window frame fits to the 3" margin." See illustration, also see Unit No. 2, drawing—"Detail of front wall trim." Notice how the window frame holds the window in place and the window fits in the opening.

Next glue the window frames in place and before the glue dries on the frame set the window in position and press it up against the frame. Wipe excess glue off the window with a damp rag.

Scratch lines on a small piece of celluloid for the side wall window and glue it in place. Use a piece of scribed sheathing for the rear wall door.





FRONT WALL DETAIL

DETAIL OF FRONT WALL TRIM

USE 1/16" SCRIBED SHEATHING - 1/16" SPACING FOR ALL WALLS

Roof—Add a ridge rafter to support the roof, this rafter should be at least ⅛ x ⅛ inch stripwood.

Cut a one piece roof to fit from the Strathmore board, allowing the roof to over-hang the walls one foot. Add it to the building—apply brush wash to the edges and the underside of this roof piece.

Using a sheet of Walthers V175 brown shingles, cut a piece to fit each side and glue them to the Strathmore roof—cut a narrow ridge strip from the margin of the sheet and glue it to the roof ridge. When the roof has thoroughly dried, weather it with brush wash.

The stove pipe chimney is a small nail painted black—add it to either side of the roof.

Should you like to improve on the looks of this building add a shed to the left side and rear. For special details on the type shed to use see article Gila Bend, RMC Oct. '55.

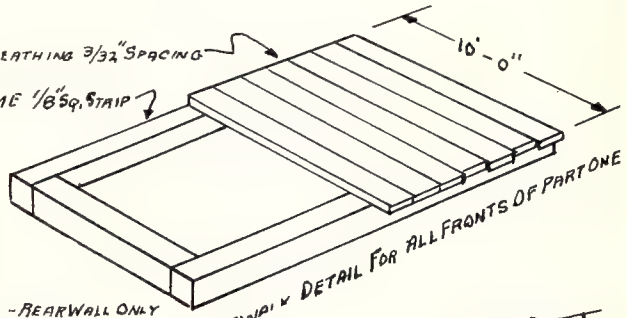
Unit No. 2 — The principle and method of construction for this building is basically the same as was used for Unit No. 1 with these exceptions —Scribed sheathing is used for the make up of all four walls, the arrangement and design of the front trim is different and the roof is a top imitating tar and gravel.

About the only additional details needed to complete this project is to add the 1/32 x 1/16 inch strip for the Fascia. Note the corner post on rear wall only. Cut a roof piece to fit from Strathmore board and glue it in place, add some stripwood bracing to the underside of the roof t oprevent it from sagging. Manner of weathering and painting is the same.

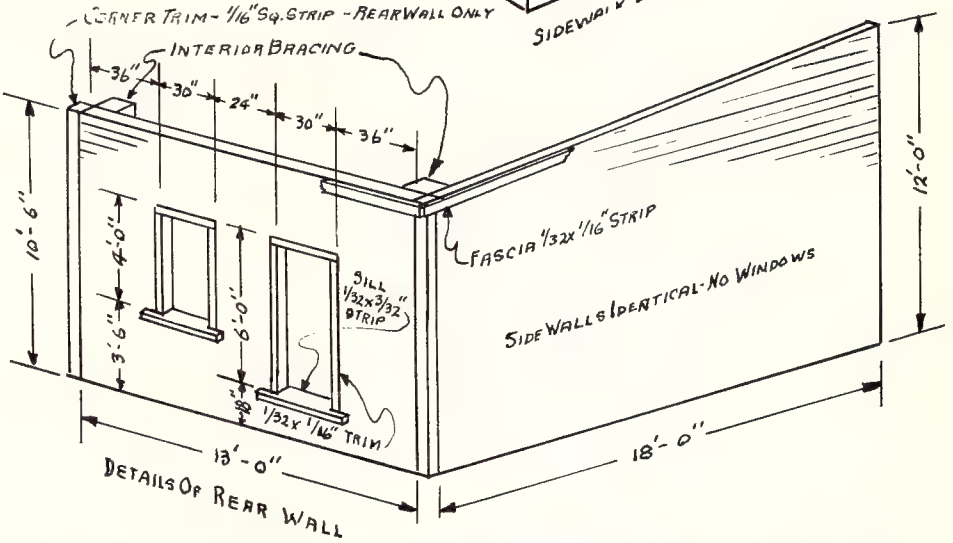
Imitating a gravel roof—paint the roof with black enamel and while paint is still wet sprinkle on some finely sifted sand. Set aside to dry, then ad the stove pipe chimney. Omit sidewalk detail in this figure for now.

Unit No. 3—Using the clapboard siding cut out the four walls according to dimensions. Add the 1/16 x ⅛ inch stripwood for the top trim board. Cut the corner trim (1/16 inch square stripwood) to fit and

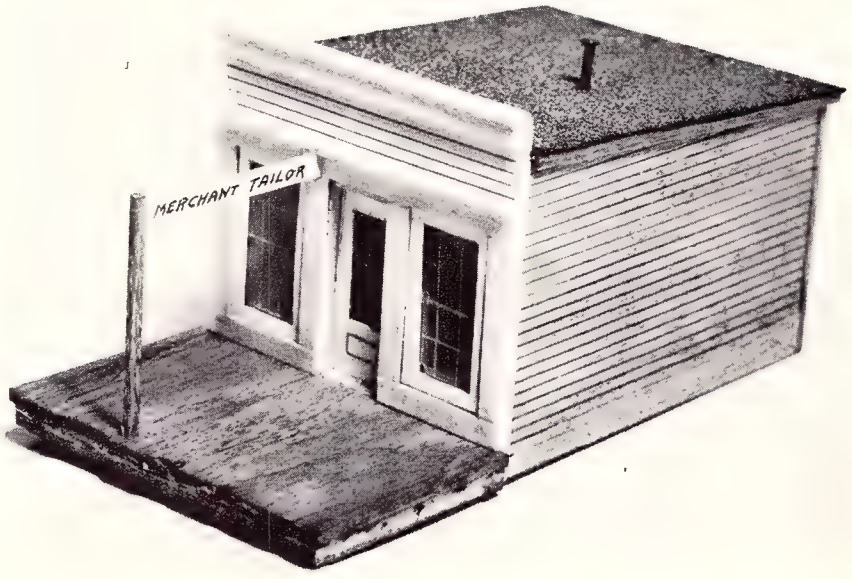
UNIT NO. 2

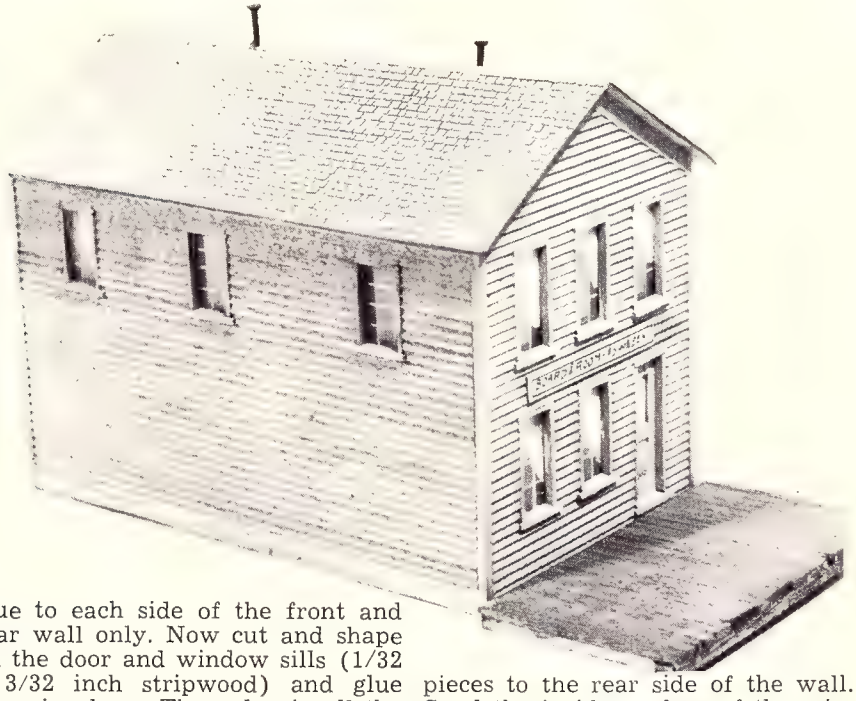


SIDEWALK DETAIL FOR ALL FRONTS OF PART ONE



DETAILS OF REAR WALL





Small two story boarding house could also be built as a single structure for placing near any railroad terminal, could also fit into any model structure city as typical older structure.

Rear view of the three structures described this month shows location of windows, doors, and other detail. Precision wood is used almost entirely.

Lloyd Giebner mounts all of his structures into an earthlike scenery which gives a greater illusion of realism. A complete article by Lloyd Giebner on Earth Type Bases appeared in the April 1956 RAILROAD MODEL CRAFTSMAN.

glue to each side of the front and rear wall only. Now cut and shape all the door and window sills (1/32 x 3/32 inch stripwood) and glue them in place.. Then glue in all the (1/32 x 1/16 inch stripwood) door and window trim.

The dotted line detail on the front and rear wall represents the interior bracing—cut ⅛ x ⅛ inch stripwood pieces to fit and glue the bracing in place.

Glue the four walls together. Wipe off the excess glue with a damp rag.

This structure is painted a light brown and when the paint has dried it is weathered with brush wash.

Windows.—Scratch line as illustrated on celluloid and glue the pieces to the rear side of the wall. Sand the inside surface of the windows to make translucent.

Doors—The rear door is the same style as the front door. Detail for the construction of these doors, use the same method as described in Unit No. 1

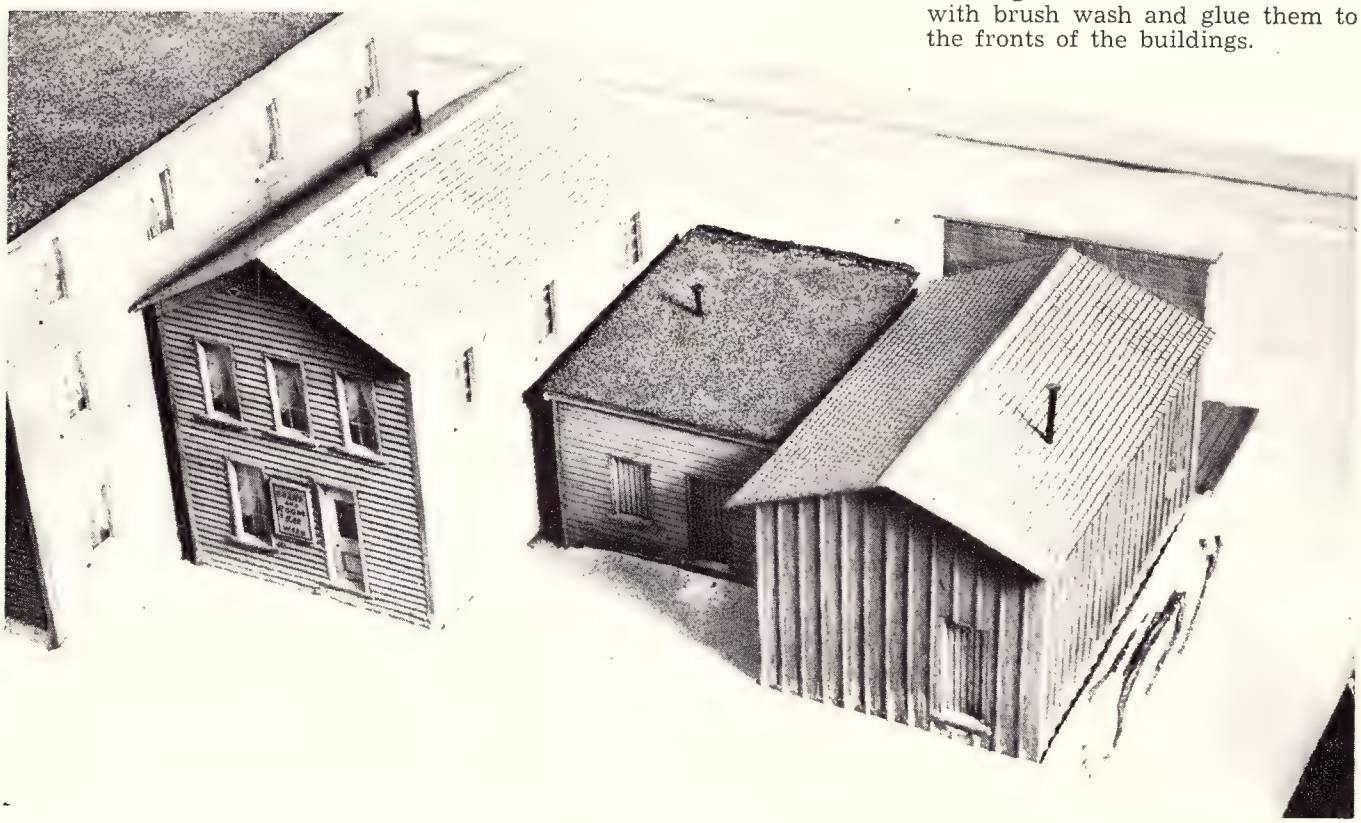
Add the ridge rafter and apply the roof in the same manner following the descriptive detail set forth in Unit No. 1. The plan of Unit No. 1 calls for only one stove pipe chimney. However, use two on the building.

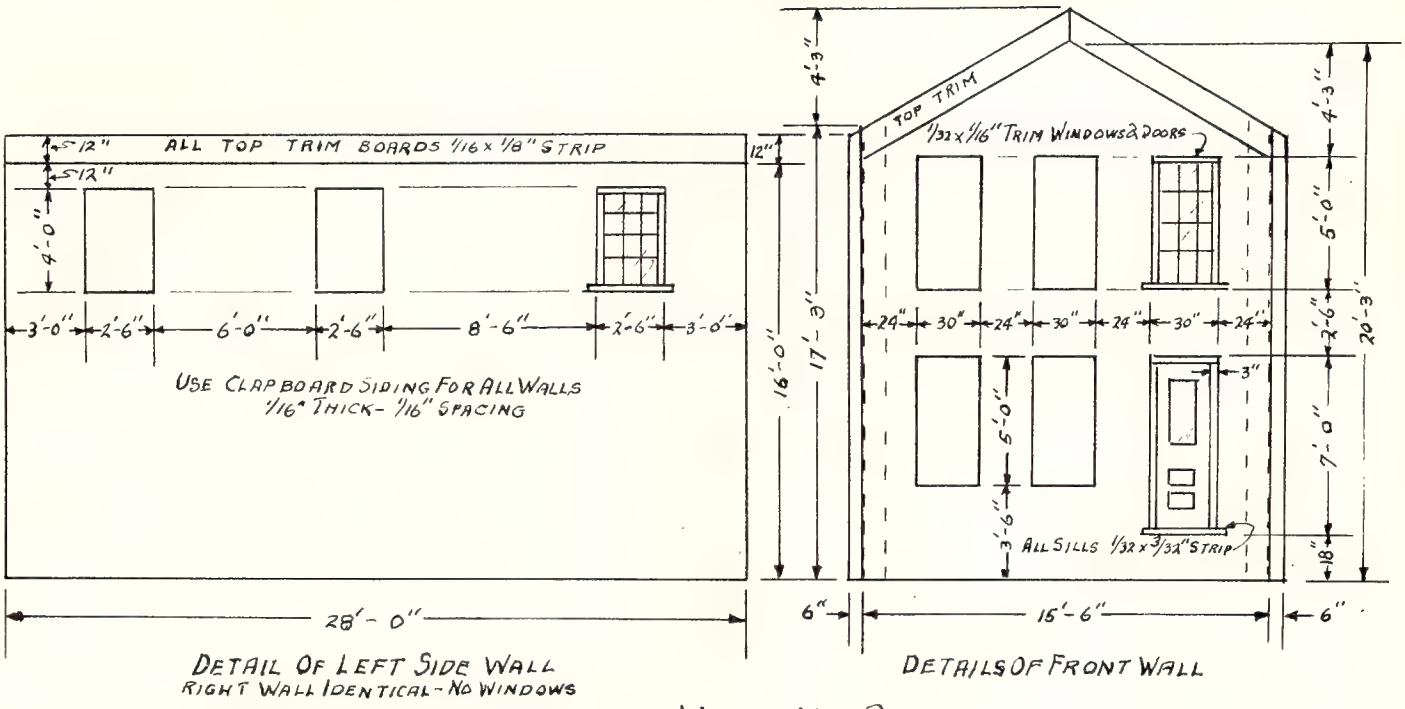
Sidewalks — See dimensional drawing in Unit No. 2. The 18" below door sills and trim on all three of the store fronts has been allowed for the sidewalks.

There are two ways to make up the sidewalks. One: use ⅛ x ⅛ inch stripwood for the underframe and 1/16 inch thick scribed sheathing with 3/32 inch scribed spacing for the walk boards. Two: Use the same size underframe and 1/32 x ⅛ inch stripwood for the walk boards. However, should you use stripwood for the walk boards, add three more pieces of this size strip to the number of pieces in the materials list.

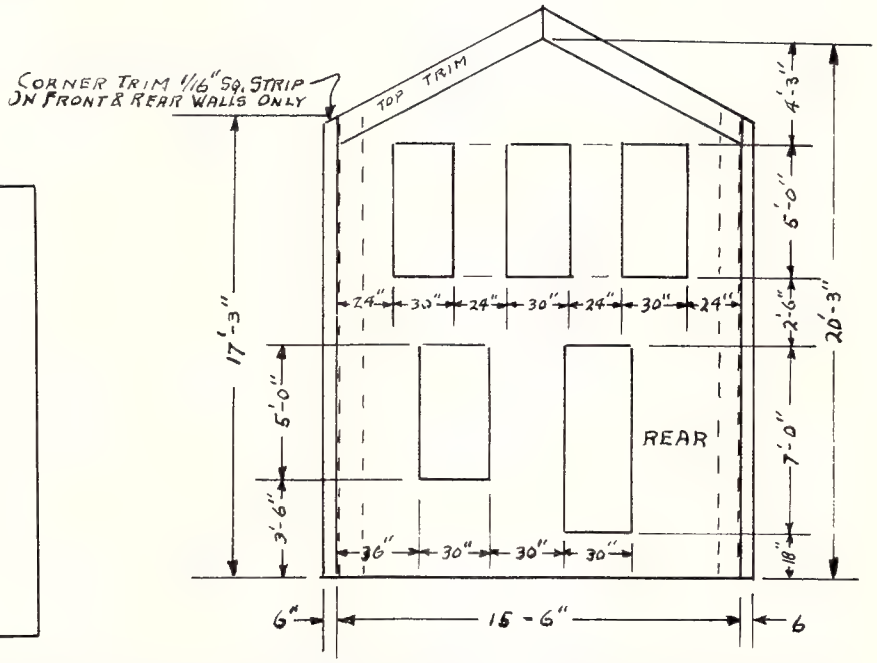
There should be at least 12" of space between each building, therefore, extend the length of the sidewalks 6" on each side of the building.

Choose the type sidewalk you like and make up three 10'-0" wide and the length to fit the front of each building. Weather the sidewalks with brush wash and glue them to the fronts of the buildings.





UNIT No. 3



List of Materials

LIST OF MATERIALS

10—lengths 1/31 x 1/16" stripwood
4—lengths 1/32 x 3/32" stripwood
3—lengths 1/32 x 1/8" stripwood
2—lengths 1/32 x 3/16" stripwood
1—length 1/32 x 1/4" stripwood
4—lengths 1/16 x 1/16" stripwood
1—length 1/16 x 3/16" stripwood
1—length 1/16 x 1/8" stripwood
1—length 1/16 x /4" stripwood
10—lengths 1/8 x 1/8" stripwood
2—lengths 3/32 x 3/32" stripwood
2—lengths 3/32 x 1/8" stripwood
1—Sheet Celluloid or Acetate
1—Sheet 1/16" Capped siding—1/8" cap spacing
1—sheet 1/16" Scribed Sheathing—1/16" spacing
1—sheet 1/16" Clapboard siding—1/16" lap
1—sheet 1/16" Scribed Sheathing—3/32" spacing
1—sheet Strathmore board No. 73
4—sheets Walthers shingles No. V175 brown
1 tube Kwik—Stik glue

OTHER ARTICLES BY LLOYD GIEBNER WHICH HAVE APPEARED IN RAILROAD MODEL CRAFTSMAN

Lloyd's Own HO Layout ..... Sep. 52
Sperry Detector Car ..... Oct. 52
Modern Radio Control Tower ..... Nov. 52
First National Bank Building ..... Dec. 52
Santa Fe Water Plant—Part 1 ..... Jan. 53
Santa Fe Water Plant—Part 2 ..... Feb. 53
Chapel Car ..... Mar. 53
Santa Fe Fuel Oil Supply ..... Apr. 53
no article in May 1953
Sand House ..... June 53
Wayside Telephone Shack ..... June 53
Elevated Gate Tower ..... July 53
Coaling Tower, F-M NYC—Part 1 ..... Aug. 53
Coaling Tower, Part 2 ..... Oct. 53
Cinder Conveyor ..... Nov. 53
Manual Block Tower ..... Dec. 53
ATSF Depot of 1911 ..... Jan. 54
Trackside Stock Yard ..... Feb. 54
SP Water Tower ..... Mar. 54
ATSF Combination Depot ..... Apr. 54
ATSF Section House ..... May 54
Motor Car Shed, Boxcar Bunkers ..... June 54
3 Stall Roundhouse ..... July 54
ATSF Diesel Shop ..... Aug. 54
Elevated Yard Office ..... Sep. 54
Signal Maintainer's Shanty ..... Oct. 54
Diesel Sand Station ..... Nov. 54
Small ATSF Fueling Station ..... Dec. 54
Modern Warehouse ..... Jan. 55
Cement Grain Elevator ..... Feb. 55
Old Time Grain Mill ..... Mar. 55
Milk Station, Refrigerator Car ..... Apr. 55
Milk Processing Plant ..... May 55
Small Modern Factory ..... June 55
Floodlight Tower ..... Aug. 55
LCL Break Bulk Truck Terminal ..... Sep. 55
Gila Bend, Arizona; a Vilage ..... Oct. 55
Georetown, Colorado; a Village ..... Nov. 55
1874 Fire House ..... Dec. 55
Little Brown Church In The Vale ..... Jan. 56
Piggy Back Depot ..... Mar. 56
Earth Type Bases For Buildings ..... Apr. 56
Cheyenne, Wyoming; a Village ..... May 56

out of the CARBARN rolls a Brill

SEMI-CONVERTIBLE

CONVERTED horsecars gave way at the turn of the century for heavier wooden cars of which the Brill semi-convertible is the classic example. The Brill cars could be found on large and small systems wherever street cars could be found. With their deck roofs, Detroit platforms, and patented doors, they marked a high point in street railway body construction.

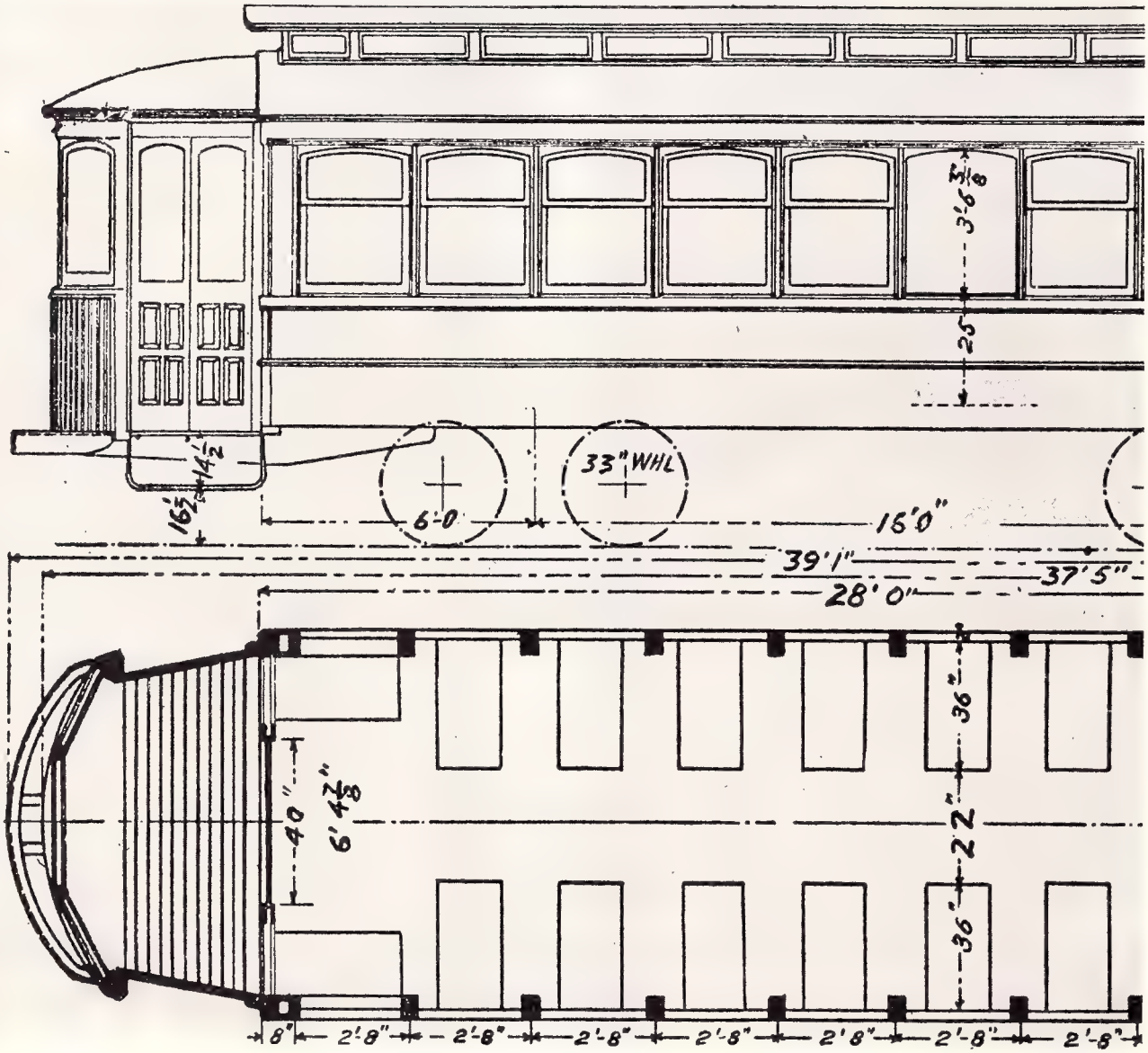
Actually, there were many variations of this type car and trolley fans often note them conveniently by the number of windows, as for example a Nine-Window Car or a Twelve-Window Car. Depending on individual street railway requirements, the cars were single or double ended with one or two poles. Double ended cars, if short, often had only one pole center mounted. Single ended cars often had doors which opened on one side only.

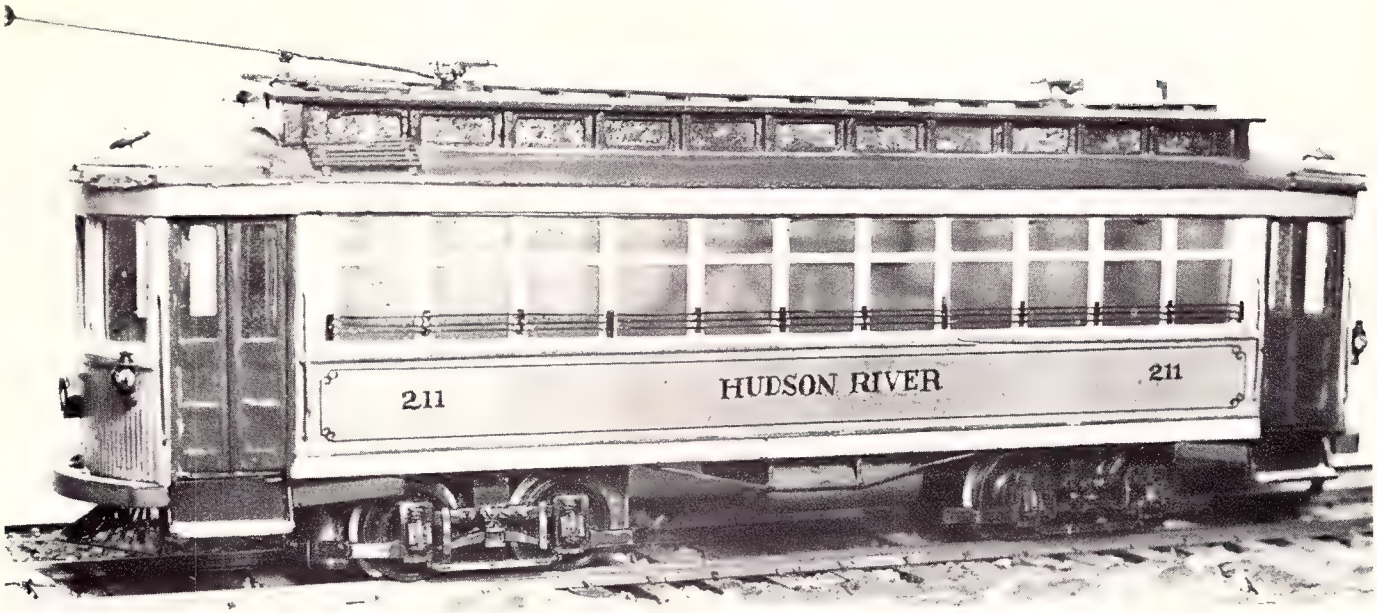
Trucks often varied greatly, also. Almost any type of period traction truck, including maximum traction and varied interurban designs were used at some time.

The services to which these cars were put varied greatly. The great city systems operated them by the hundred on dense traffic city lines and they could also be found equipped with pilots, bouncing along hills through pretty wooded countryside from one town to another

Pilots also varied, depending in the type of service to which the car was put, local laws, and the period during which the car operated. Cars in certain west coast cities used the big basket type fenders until very late while in most cities, the basket fender gave way to simple double-bar affairs. Cars in interurban service usually had some form of small pilot, made of wood or metal.

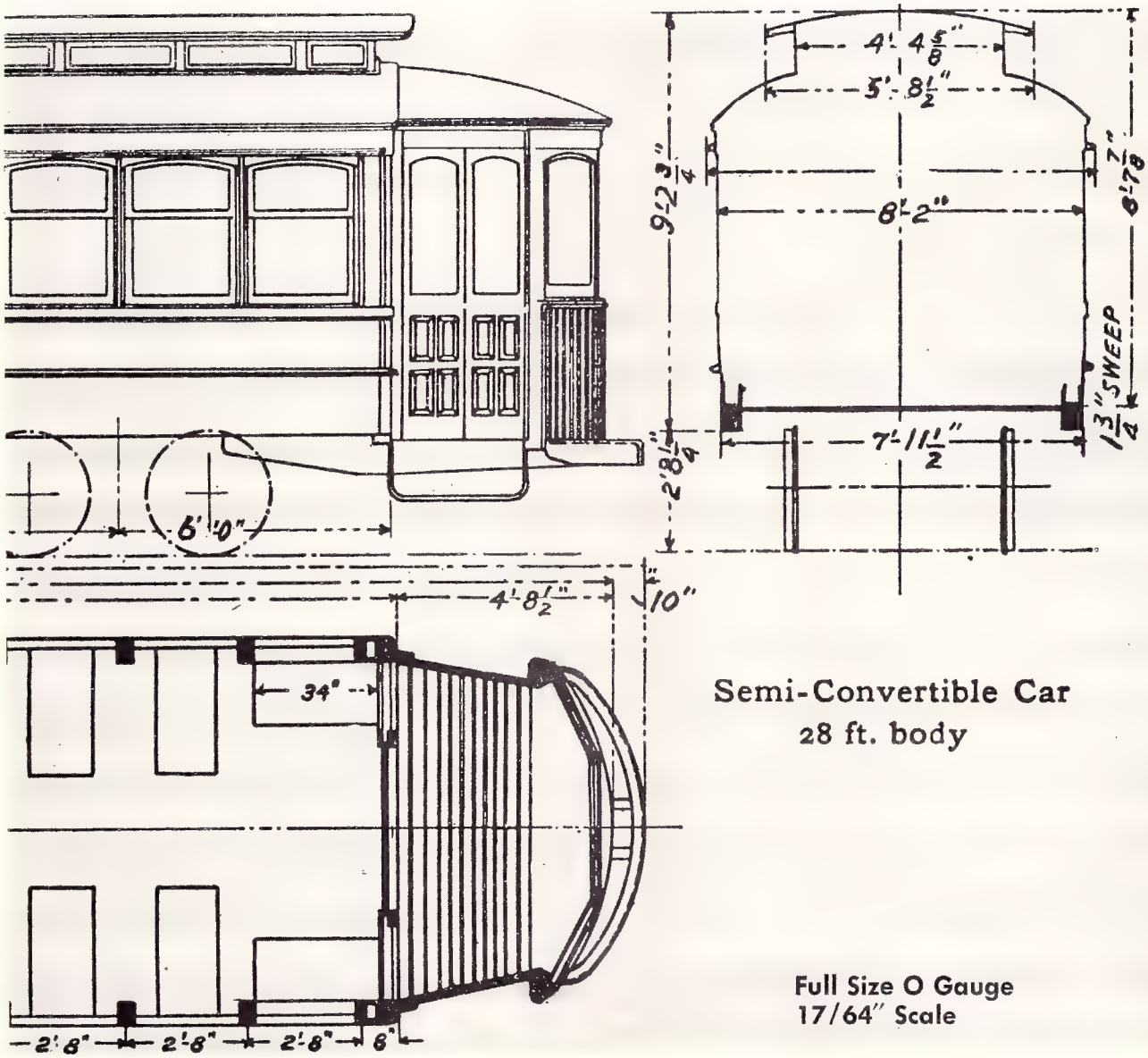
Another distinguishing feature was the destination sign. Some companies used roll signs only, mounting them in the deck roof ends and center and also in the right front window and the front window on the right side. Others used painted boards located outside the deck, sometimes with holes drilled in so that lights shining through the deck illuminated them at night. Others used, removable signs, mounted number signs, and even different paint schemes to designate different routes.





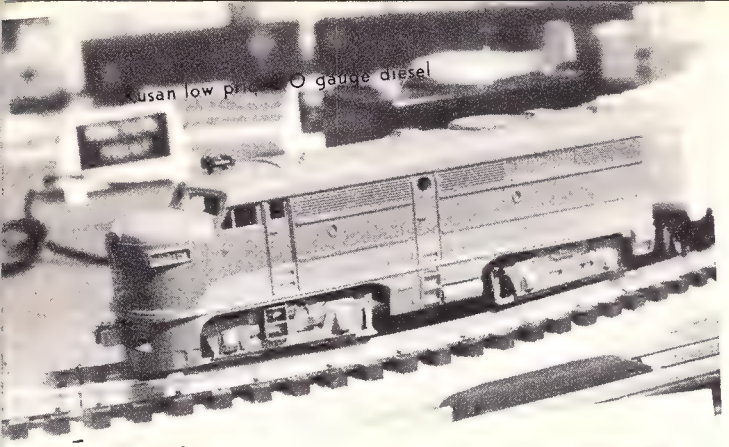
If ever there was a typical trolley car, this was it. The prototype could be found operating on lines from Portland to Hackensack, from Boston to Memphis. Details, paint, trucks, number of poles differed.

Car above is O gauge conversion of Pittman arch roofed car; bought by Hudson River from Pennsylvania line, has operated over New Haven, Westfield, Hoboken club layouts, plus abandoned home line layout.

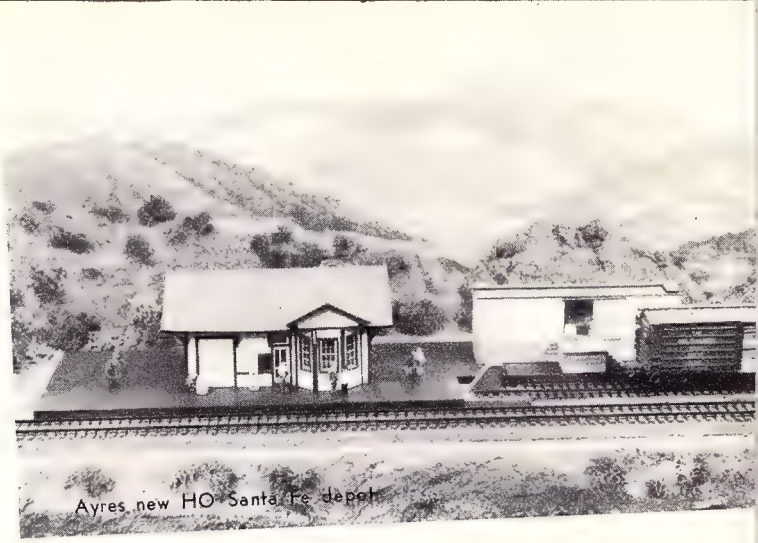


Semi-Convertible Car
28 ft. body

Full Size O Gauge
17/64" Scale



Kusan low pri[illegible] O gauge diesel



Ayres new HO Santa Fe depot

K&O's [illegible] HO [illegible] unusual play value

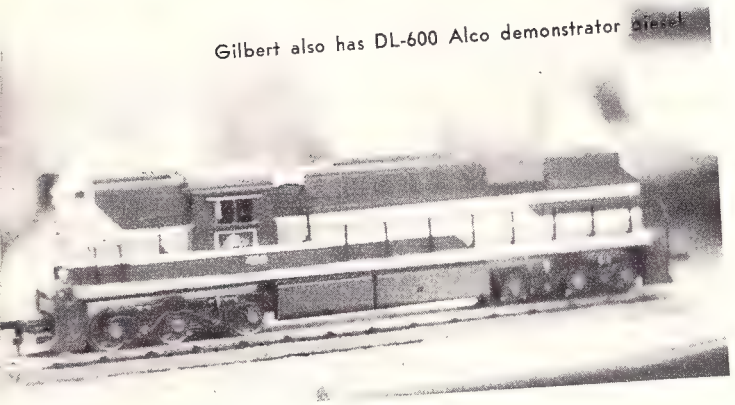
NEW for 1956

THERE are two big events each year having a great impact on the model railroad industry. First of these is the annual trade show and convention of the Hobby Industry Association of America held each February. The second is the trade show of the Toy Manufacturers of America held each March in New York City. Both are of importance to the industry and both are of interest to the railroad model craftsman since they herald the release of many of the new model railroad items which make their appearance in the fall.

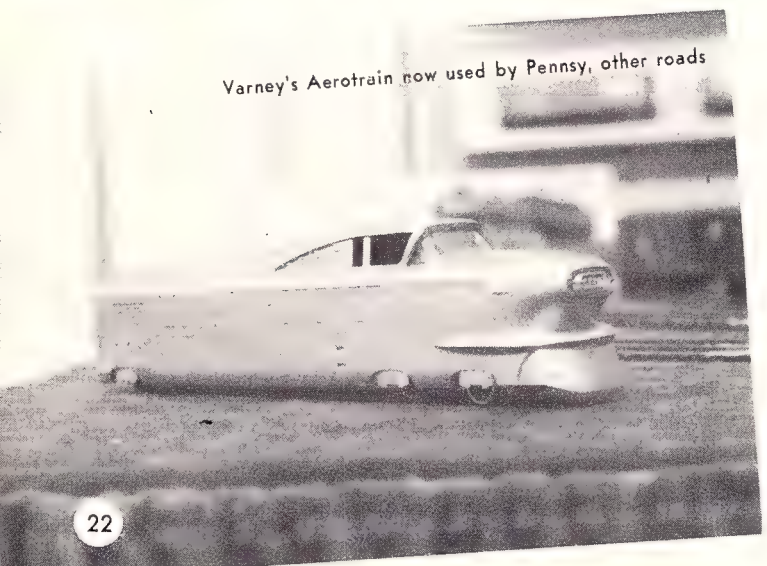
The HIAA show was held for the second year at the Civic Auditorium in Grand Rapids, Michigan. It was the bigest ever and encompassed all of the model building and craft hobbies. The model railroad section was well represented and although February is very early for the model railroad season, a number of new products were present, some in interesting hand made mock-up models. Here are some of the items displayed by the many model railroad manufacturers at their booths, items seen by over a thousand dealers and jobbers from coast to coast, items which will be on your dealer's shelf this fall. Please note that this is a preview and that many of these items will not be in production until later this year.

A. C. Gilbert

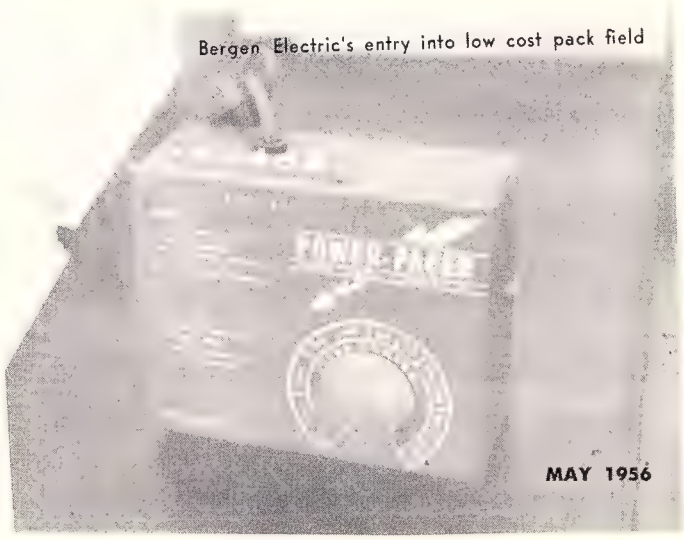
The Gilbert HO Line is heading off the season with an Alco DL-600 road switcher that is so new that American Locomotive doesn't even have the prototype engines off



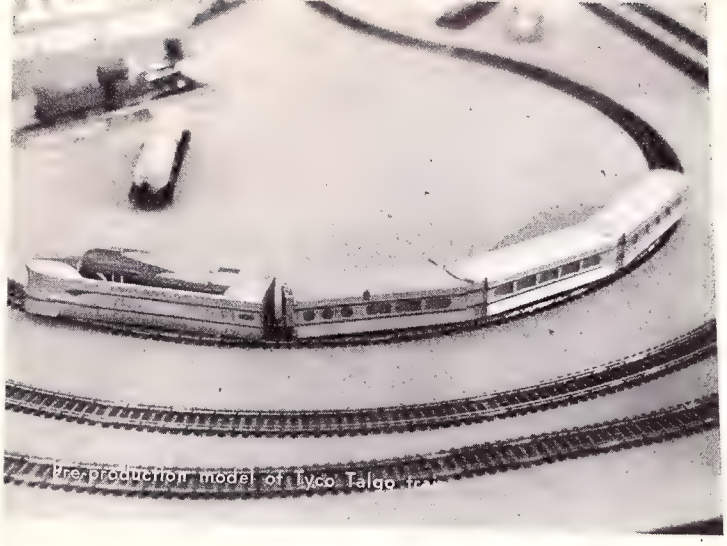
Gilbert also has DL-600 Alco demonstrator diesel



Varney's Aerotrain now used by Pennsy, other roads



Bergen Electric's entry into low cost pack field



Pre-production model of Lyco Talgo fr

LeRoy's new structure series finely detailed of hydrocal

1956 promises to be the biggest model railroad year ever.

RMC Staff Photos

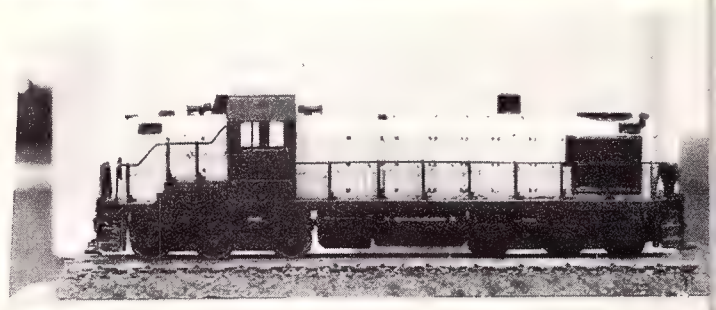
of the assembly line at this writing. Gilbert's model will feature an attractive Alco demonstrator color scheme of purple and silver for the 1956 season. This diesel is the Alco answer to the Electro Motive GP-7 and you'll probably see a lot of them on our real roads next year.

Also new with Gilbert are some new freight cars in the 500 series including a red New Haven box car with the big new NH lettering. The photo is of an engineering department mock-up model. Production models will be more finely finished. A review on Gilbert's new rubber roadbed appeared in the April '56 RMC.

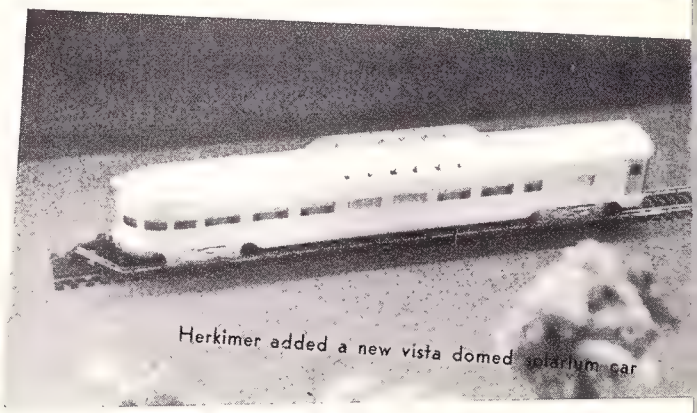
Gilbert also has a new signal device which flashes on and off when a train passes through a track tripper. The Gilbert American Flyer S Gauge line will be shown at the New York Toy Fair for the first time, as will the entire Lionel Line.

Mantua & Tyco

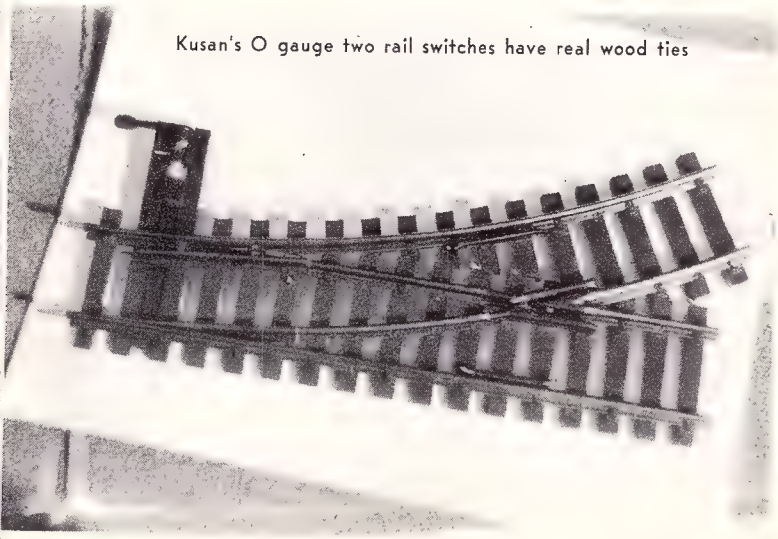
The biggest news from Mantua Metal Products is their molded Talgo train, now being built by ACF for the Rock Island and other roads. The Talgo train is articulated with only two wheels per car except for the first car. A specially designed diesel A unit powers the train. The model demonstrated was a manufacturer's mock-up which means that there may be minor design changes when the model finally reaches dealer shelves later in the year. This train will really take curves that would make a trolley think twice.



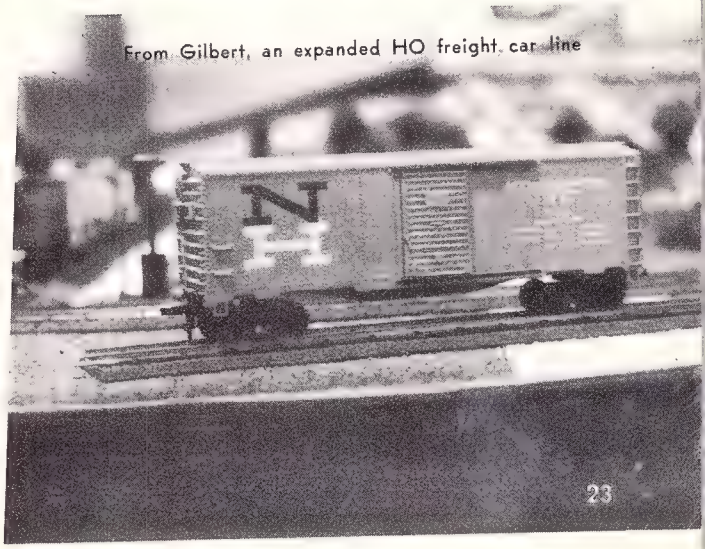
Hobbytown coming with new 12 wheel road switcher, RDC car



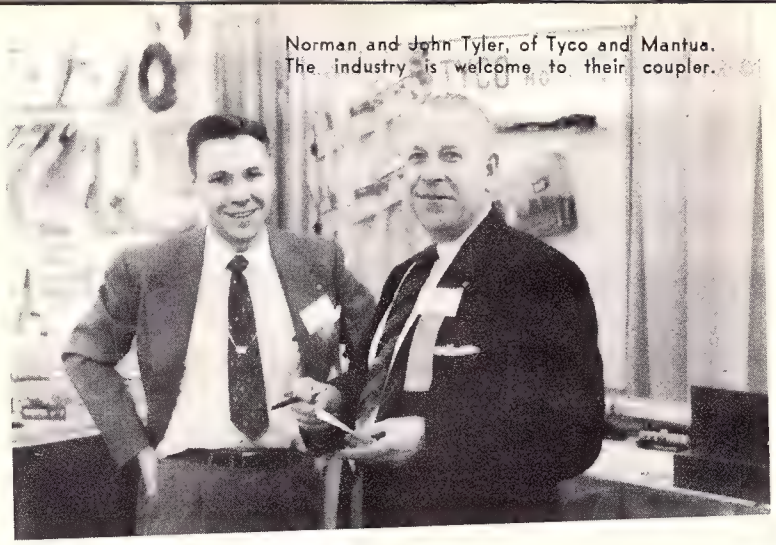
Herkimer added a new vista domed solarium car



Kusan's O gauge two rail switches have real wood ties



From Gilbert, an expanded HO freight car line



Norman and John Tyler, of Tyco and Mantua. The industry is welcome to their coupler.

Power supplies were well covered by Scintilla, Marnold, Bergen, Leyghton-Paige, Model Rectifier.

Tyco ready-to-run pasenger cars will come in a yellow and red trim for 1956. A feature of the Mantua-Tyco booth was a 34 car freight train pulled by a Mantua mikado locomotive.

Hobbytown of Boston

A new six wheeled truck Alco road switcher will be available this fall in a cast zamac body. Also coming from Hobbytown, a Budd RDC-1 featuring an imported built-up sheet metal body and a Hobbytown power truck. The demonstrator model without trucks had fine detail.

Tru-Scale

The big news at Tru-Scale is their new powered switches which have the switch machine imbedded right into the wooden roadbed, making it almost invisible when inserted on the layout. These switches kick over with a satisfying snap. Also two detailed display tracks for your finer equipment.

Marnold-Pioneer

No new items but the big news from Marnold is their taking over the entire Pioneer switch machine and accessory line. We got quite a bang out of the Marnold turntable, a 14" spun aluminum pit hand operated from the control panel by means of a cable.

Kusan-Auburn

Kusan displayed the only O gauge items displayed at Grand Rapids. They've added a two rail tubular track O gauge switch, manual type, to their 1956 line plus a low priced O gauge freight line. The new locomotive is an Alco design. Also added are a number of new freight cars as well as some new paint schemes for their diesels.

Herkimer-OK

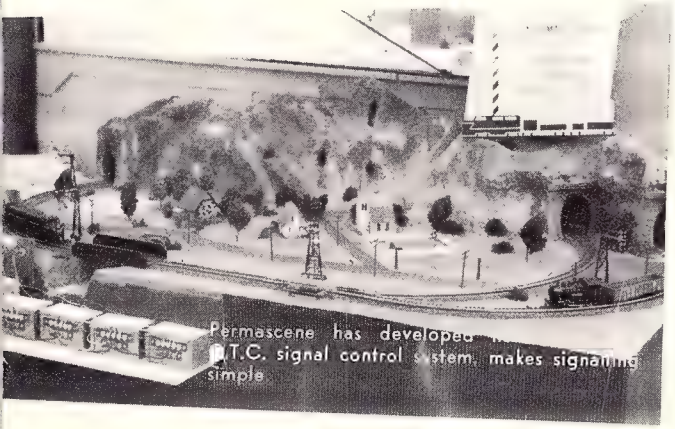
Herkimer has a new HO gauge vista domed solarium car, rounding out their pasenger car line of shorty and scale length cars. The OK line is made of extruded fluted aluminum and come complete with lights.

Ayres Scale Models

Tom Ayres unveiled a brand new Santa Fe depot kit which features a number of innovations which provide greater detail in the windows and roof supports. The model is very similar to the Giebner model featured in RMC for Jan. '54. We think this will be a very good item. Ayres may have some more surprises before long, too.

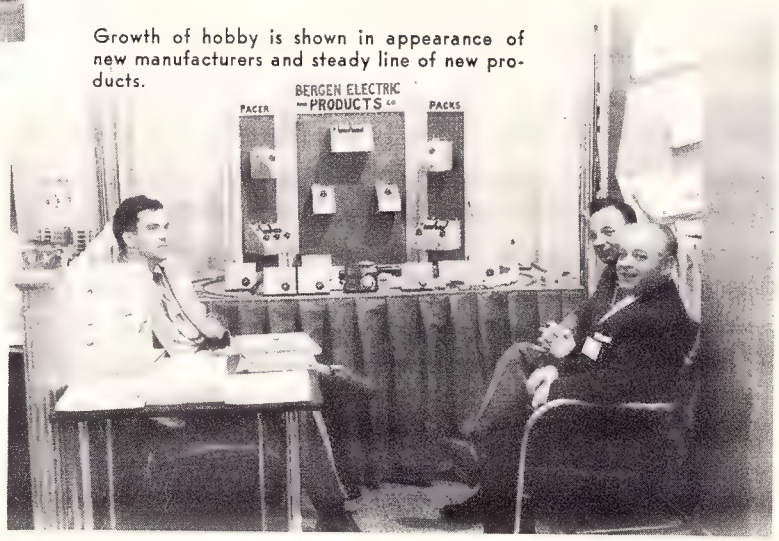
Varney Scale Models

Varney's Aerotrain, which you may have seen on NBC Television's "Today" show, is as revolutionary as was the Pioneer Zephyr and M-10001 back in the early Thirties. It's all molded plastic of very simple construction. It differs from Mantua's Talgo in that each car has four wheels instead of being articulated. Drawbars are used as couplers. Prototype is General Motors and the cars closely resemble GM bus bodies. The locomotive is powered with a new Varney power truck. The short length of the cars make the train a natural for sharp radii pikes.



Permascene has developed [illegible] T.C. signal control system, makes signaling simple.

Growth of hobby is shown in appearance of new manufacturers and steady line of new products.



Augie Kniff's Tru-Scale line, still aimed at the hobbyist, being produced in terms of tons.

Ayres' craftsman kits prove that model rails want more and more quality do-it yourself items.

Varney's new 2-8-0 was also unveiled, is a Casey Jones boiler on a 2-8-0 chassis. It's nicely proportioned, fills a niche all too long vacant in the HO motive power field. Varney will use NMRA couplers in their 1956 Ready-Run line.

LeRoy

Quiet for some time, LeRoy has just released an entirely new line of HO structures which include a church, houses, school, factory, gas station, and others. Buildings are molded in Hydrocal a tough plaster; come ready assembled and painted. Detail is very satisfying.

Ideal Models

Ideal's line has also changed considerably with the emphasis on more detail. Buildings are now ready assembled and prepainted on tough presed fibreboard which provides ample detail. Also in the line such structures as water towers, etc. More to come.

K&O

A big name in model boats, the first entry by K&O in the HO railroad field is a battery powered F-7 locomotive at a low price. Two small C cells power the A unit, providing sufficient power to haul seven cars. The engine permits two train operation, the K&O loco being uncontrolled while the second train operates from a conventional power source. The engine also permits model railroading with portable layouts at the beach or anywhere that power is unobtainable. The locomotive can also be used as a track cleaning locomotive since it will operate on the dirtiest of track and can haul one or more track cleaning cars.

Bergen Electric

The Power Pacer becomes the new low priced leader in the Pacer line. Mounted in a gray hamertone finish steel box, it delivers 1 full amp at 12v. D.C. There are 2 16v. A.C. outlets, 1 32v. A.C. outlet. DC. is speed controlled with a taper wound rheostat.

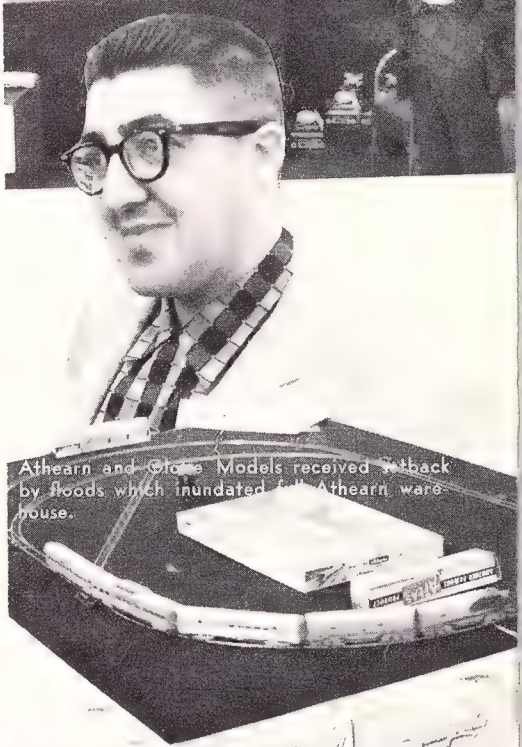
C. J. Ulrich

The stakeside trailer truck kit is the latest adition to an expanding highway truck line. Also on display, the complete line of piggy back flat cars and the standard Ulrich freight car line. A Test Track review of the piggy back flat car appeared in the Mar. 1956 RMC.

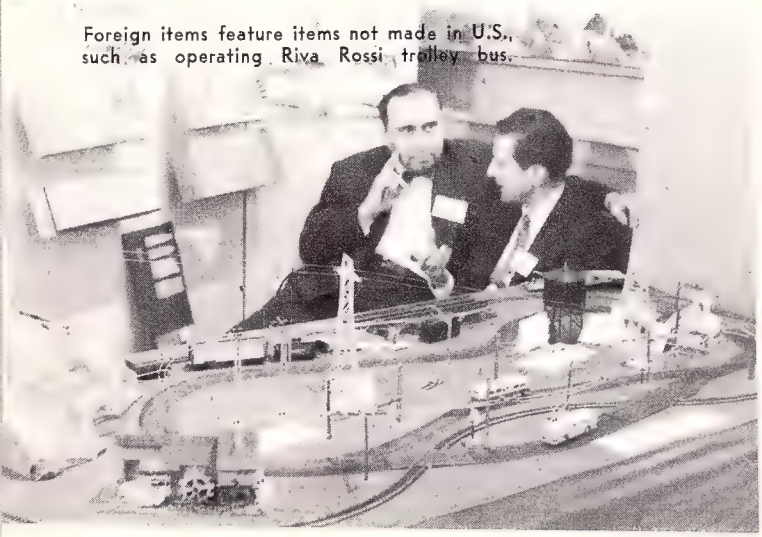
Other Displays

A number of other manufacturers also had exhibits . . . Athearn's line was unchanged. Flood damage to the Athearn plant may be holding up new items. . . . Leyhton-Paige, Model Rectifier, and Scintilla power packs were all represented with few changes. . . . A review of the new Atlas rerailer appears in the Test Track section. . . . Revell had a tug boat that fits in perfectly with any HO layout. . . . Polk's trackless trolley a natural with any model layout. It's an import. . . . Fleischmann line little changed thus far over last year.

Zev Goldberg, of E&H, posed a problem. Wants more craftsman kits such as Ambroid.

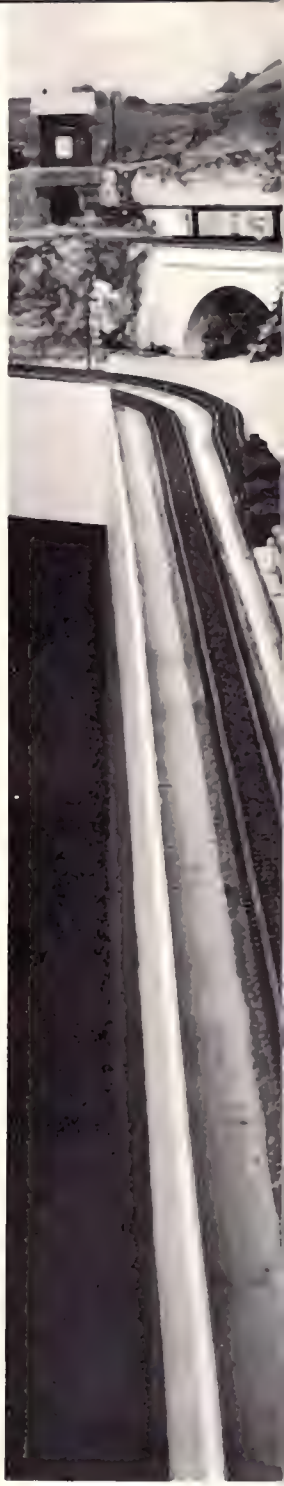


Athearn and Globe Models received a setback by floods which inundated the Athearn warehouse.

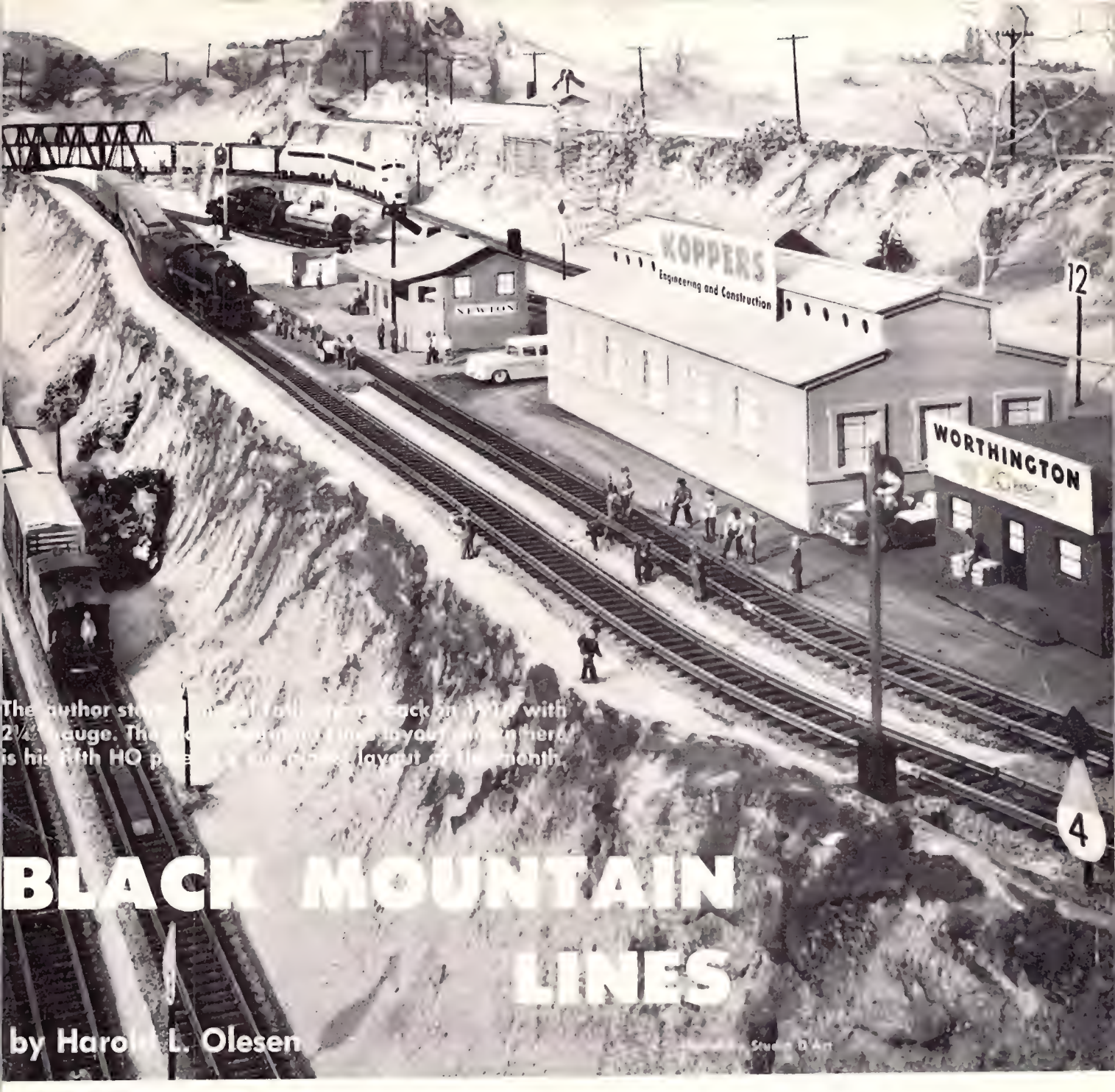


Foreign items feature items not made in U.S., such as operating Riva Rossi trolley bus.

Imported models have captured share of the market despite recent heavy import duty hike.



WORTHINGTON



BLACK MOUNTAIN LINES

by Harold L. Olesen

BY setting up problems to solve, model railroad operation can be a lot of fun. The Black Mountain Lines layout has been designed so that anywhere from one to six persons can operate the line at the same time.

This HO pike, the second under the BML herald and the fifth built in HO over a thirteen year period, was designed to overcome omissions and errors found in earlier pikes. As might be expected, each layout has become larger in size until the present layout, with its operators, fills a 16′ x 21′ room.

The layout has been kept narrow so that all parts of the railroad can be reached from the aisle. Access spaces have been left in the corners and are available by dropping small pieces of scenery in the center of each loop. It has not been necessary to use these spaces for operating purposes.

In the past, the chief omission was in yard facilities. The present BML has a main yard and two smaller yards. One is at the coal mine where a shifter is permanently assigned to switching duty, and also at Canyon station. In addition, freight switching takes place at the Shell bulk oil depot and in connection with the industries at Newton.

A second past omission, and one that is common among published layout diagrams, is that of being unable to turn an entire train around for operation in the reversed direction. On the present BML, this has been corrected by making the industries at Newton available for switching service from both sides of the inside loop—Newton to Canyon and back around to Newton. The polarity switching to make this reverse direction move possible takes place in the connecting track between the two sides of the loop, hence there is no polarity problem on the main line track.

The chief past error was found to be in too many and too long tunnels that kept the trains out of sight for too much of the running time. On this layout there are two very short underpas tunnels.

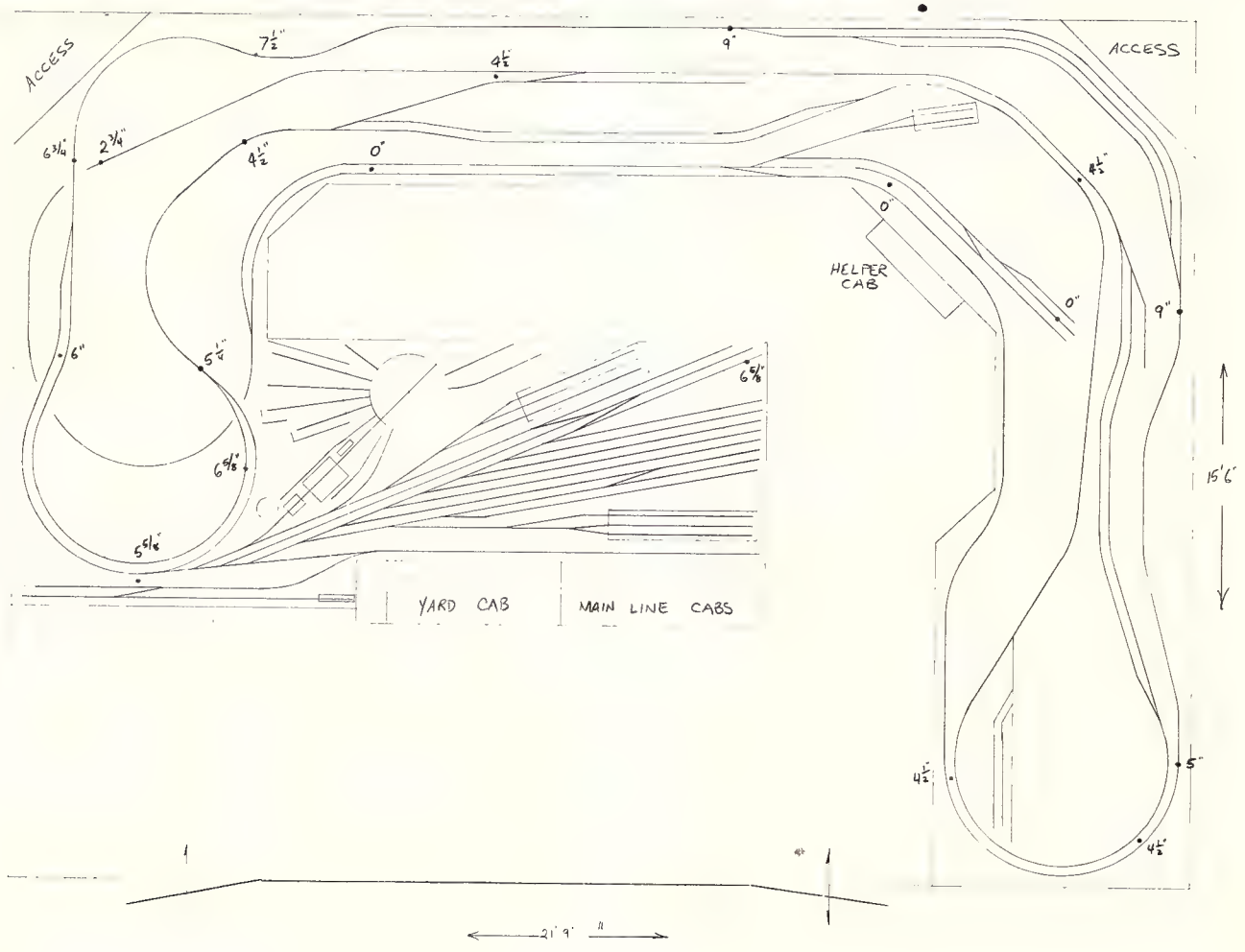
Past experience indicated the desirability of a single track main line where the number of trains in simultaneous operation thereon is limited. This, with passing sidings and

enough switching to keep the road engineers busy, seemed the best in the space available. The result is a main line having some twenty three turnouts and crossovers, seventeen live and fixed ramps, and twenty-four blocks. The BML uses Mantua couplers.

A very interesting operation is the doubleheading of trains up grade. While this can be done on a layout that is relatively flat, it loses it's punch when the train can be moved by either locomotive alone. The BML has a very steep grade from the coal mine to the summit at Crest made still more difficult by S curves. It is now very easy to give a locomotive a drag that it cannot handle alone but that can be topped by a suitable helper. On the BML, the helper goes on the front end giving the helper engineer a shot at main line operation. The balance of the time he is master of the shifter and the moves necessary to keep cars moving between the main line and the mine.

The main line, yard, and helper control boards have track diagrams complete with route lighting. Turnouts, crossovers, and ramps are identified by numbers on the layout that

Virginian Coal Company, BML owned, supplies coal for all BML steamers and adds considerably to switching moves. The mine shaft skip and car on rock dump are operating, attract much attention.

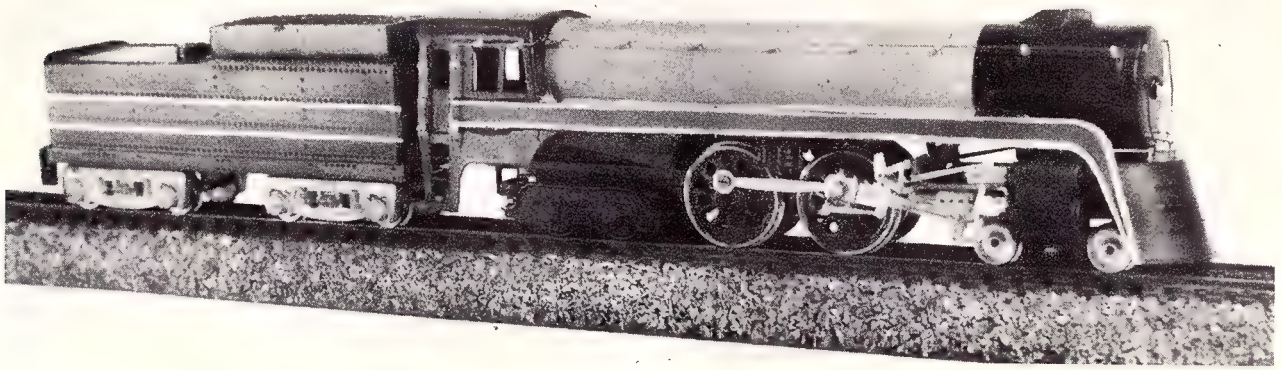


are visible to the operator and that correspond to control designations. The controls at the helper cab are interlocked when operating the layout alone, the entire system can be handled from one board. As more help is available, the cabs are separated electrically until the yard cab, engine yard cab, two main line cabs, and the helper cab are functioning individually under the direction of a dispatcher.

Power for the track is supplied at 12-0-12 volts DC with common rail continuous and grounded. Supply is varied for type of use and operation. Pulse power is used in yard switching. A generator is used for main line freight and accelleration control for passenger trains on the main line. Ramp and switch machines (relays and solenoids) are DC operated and each requires power be supplied during the full operation cycle. Signal lamps are 8v. surgical lamps operating at 4v. AC. Diagram lights are 9/64", opal, spherical, 8v. lamps operating on 5v. AC. All structures are lighted by 6/8v. pilot lamps operating on 5v. AC House lights are nine in number and are arranged over the layout.

The layout is built on wood frame of 1x4s, top edge being 36" above floor. Road bed is untempered 1/4" masonite covered with glued sand ballast. Fly screen wire over framing supports a cover of fibered plaster mixed with two parts course sand. Note treatment of backdrop.

Painted backdrop and vegetation add life where there would otherwise be too much scenery. The signals really flash and hobo fire lights up.



4-4-4 JUBILEE

The Jubilee type is a rare breed of iron horse, never really popular because it was developed too late, when larger locomotives were the need. Build a model of one and you'll have an engine never offered in kit form.

by Bill Schopp

Model photos by Sam Skean

THE number of 4-4-4 type locomotives built in America could be counted on the fingers of Mordecai Brown's pitching hand; the B&O had one, not too successful; the Reading had a handful which were quickly converted to Atlantics—prototype of the Mantua model; and the Canadian Pacific "Jubilee" type which at least lasted longer than the others, used in fast light passenger service. For the fellow who wants something a little different in wheel arrangement and appearance, whether a Canadian or not, the Jubilee type will make an interesting model.

The Frame

The construction of an HO model should begin as always with the frame. I refer you to my article on frame construction in the November 1955 RMC. This particular frame, plans for which are given with this article, has a few problems not mentioned in that article. Since the flanges at the rear of the channel have to be cut off to allow clearance for the four wheel trailing truck, the back end of the frame is somewhat floppy. This is especially bad since the DC-60 motor has to be mounted back there and tends to flip its worm (Penn-Line E-6) in and out of mesh with the worm gear on the rear Mantua driver (as used on the Pacific). The top of frame just to the rear of the gear clearance slot has been cut out completely to permit the bottom curve of the front half of the DC-60 to sit down and make the motor level.

The answer to the flopping out of mesh is to put a third bearing on the motor shaft in front of the worm. This is a piece of ⅛" O.D. brass tubing soldered into an L of 1/16" thick channel as used for the frame and fastened down with 0-80 screws with some adjustment permitted by clots instead of holes. I stiffened the back of the frame somewhat by soldering a piece of Special Shapes' ⅛" square brass channel to the underside. When the motor is mounted, further stiffness is added.

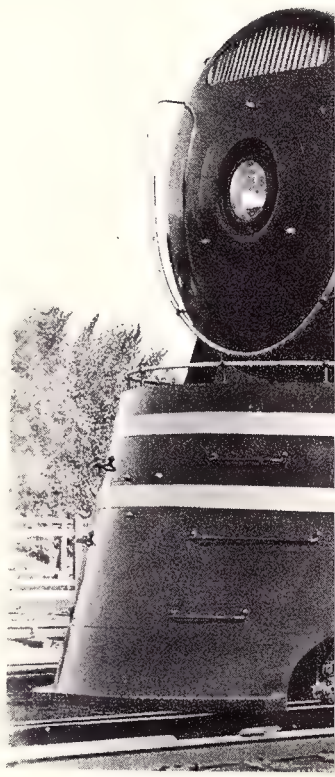
My lead truck is Penn-Line Atlantic, trailing truck Penn-Line T-1, though perhaps the Tenshodo Hudson trailing truck when available would be better since it has wheels of different sizes as has the prototype Jubilee.

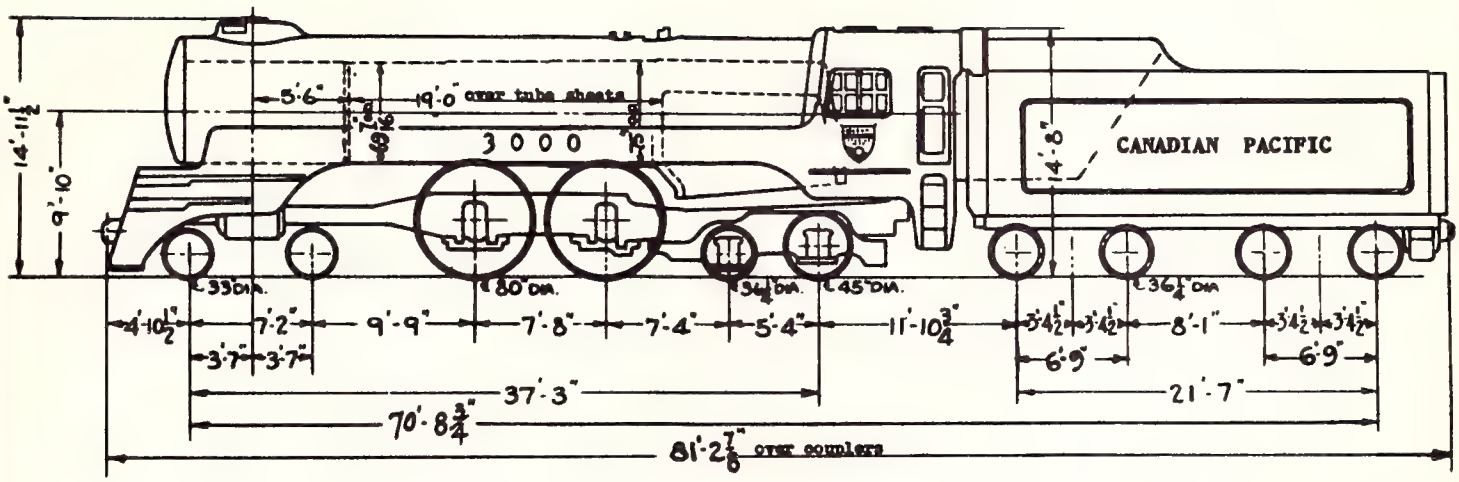
Superstructure

The starting point for the superstructure is of course the boiler, which is made from a piece of 1" O.D. brass tubing 5-5/16" long. This can be obtained from Special Shapes, or, being a common size, from many local brass supply houses: the inside diameter is not important. This should be given a coating of Dykem or other layout dye, then scribed with center lines top and bottom. Side "center" or quarter lines are also helpful in getting running board straight later on, but are not necessary. The back 2⅝" of the boiler should be cut out to clear the motor and worm, to a width of ⅝" or so. Site of stack and cylinder center line should be located 9/16" back from the front edge of the tubing and punched, then drilled out ⅛" and a

Author's model was free-lanced from CPR prototype; uses modified John English tender. Model has clean lines; making it ideal beginner loco.

CPR prototype, road class F2a, bore nos. 3000-5. Blt. by Montreal Loco. Wks., the engines had 80" drivers, 26500 lbs. tractive effort, and a total engine weight of 263000 pounds. Engines are not unlike Milwaukee Road Hiawatha type Atlantics.





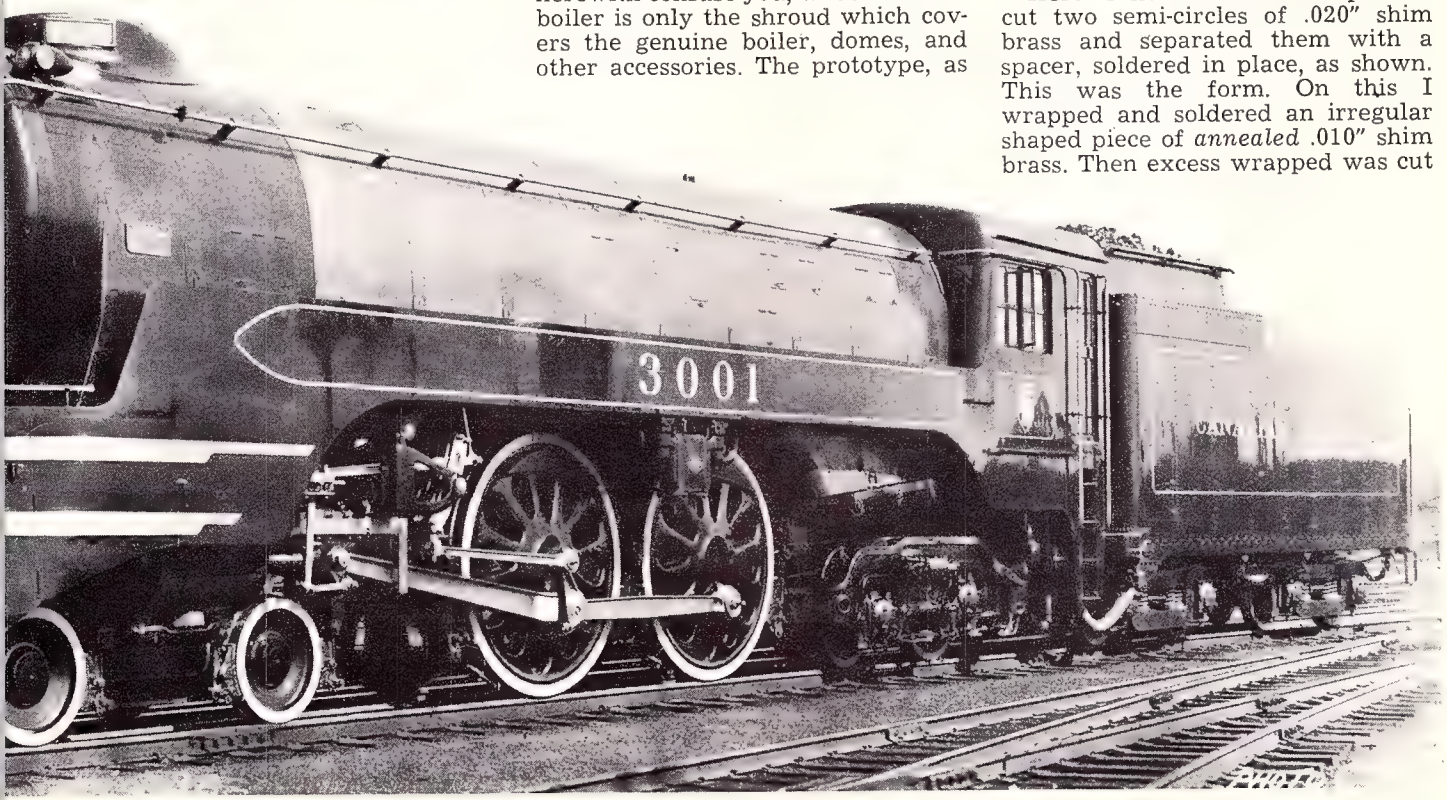
piece of ⅛" O.D. brass tubing soldered through. This will encase and guide the 2-56 x 1⅛" Penn-Line screw used to attach the boiler to the cylinders.

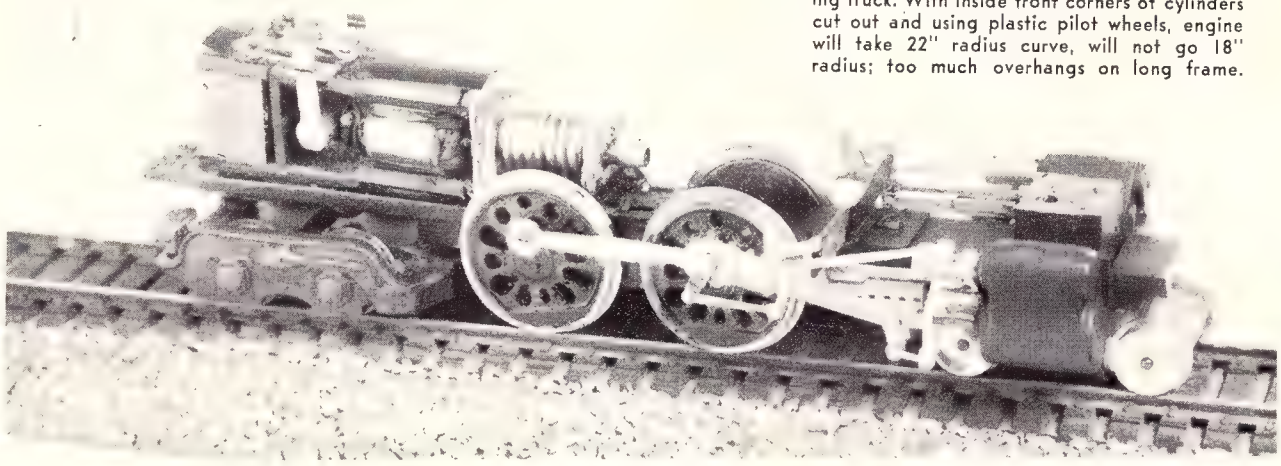
My pattern for the cab is given with this article. Back and sides on one piece which are cut out and bent to shape, a sloping front on another piece. These are soldered together. Then a piece of 1/16" square brass is soldered in the sloping front corners so they can be filed round. This much of the cab is slipped on back of the boiler and soldered in place at the top and at bottom corners, taking care to get center line of cab front lined up with center line scribed on top of boiler. The cab roof is cut from the same thickness brass (I used .015" shim stock) heat it red hot in the gas flame to anneal, allow to cool, then bend and cut to shape and solder on. A floor can be cut from heavier brass stock which is soldered in place. Do not forget to allow motor clearance. Pieces of Mantua brass ladder stock are soldered inside the lower parts of the cab for steps. Notice that the cab as I have laid it out extends down to a point at lower front end. This will be rounded off by you later, with a file or grinding wheel, after skirts have been put on.

Some slight weighting of the boiler may be necessary to balance the engine and give it a little traction. A few slugs of type-metal can be screwed in the front half or it may be poured full of "lead" from motor to back of smoke-box (not more or engine will be nose-heavy), using modelling clay dams. This kind of work is best done before the cab or any other parts have been soldered on, although not necessarily so. And incidentally, lest the plans printed herewith confuse you, what I call the boiler is only the shroud which covers the genuine boiler, domes, and other accessories. The prototype, as you will note, has the boiler sunk down in the lower part of this shroud. This explains why the 9'10" distance from rails to CL of boiler does not come to center of *apparent* boiler as indicated by the headlight.

A lathe would be the best bet for a boiler front for this loco, but not having one with sufficient OOMPH I had to improvise. I cut a 1" disc of ⅛" brass as accurately as possible with a jewelers saw, drilled its center 5/32" and soldered in a piece of 5/32" brass tubing to indicate a headlight and also to permit possible future installation of a GOW bulb. I chucked this up in an electric hand drill by the tubing and filed the disc good and round, then shaped the front. For easy boiler mounting, I soldered on a ring of the next smaller size brass tubing, in my case 15/16" O.D., a Special Shapes product.

Here is how I made the pilot. I cut two semi-circles of .020" shim brass and separated them with a spacer, soldered in place, as shown. This was the form. On this I wrapped and soldered an irregular shaped piece of *annealed* .010" shim brass. Then excess wrapped was cut





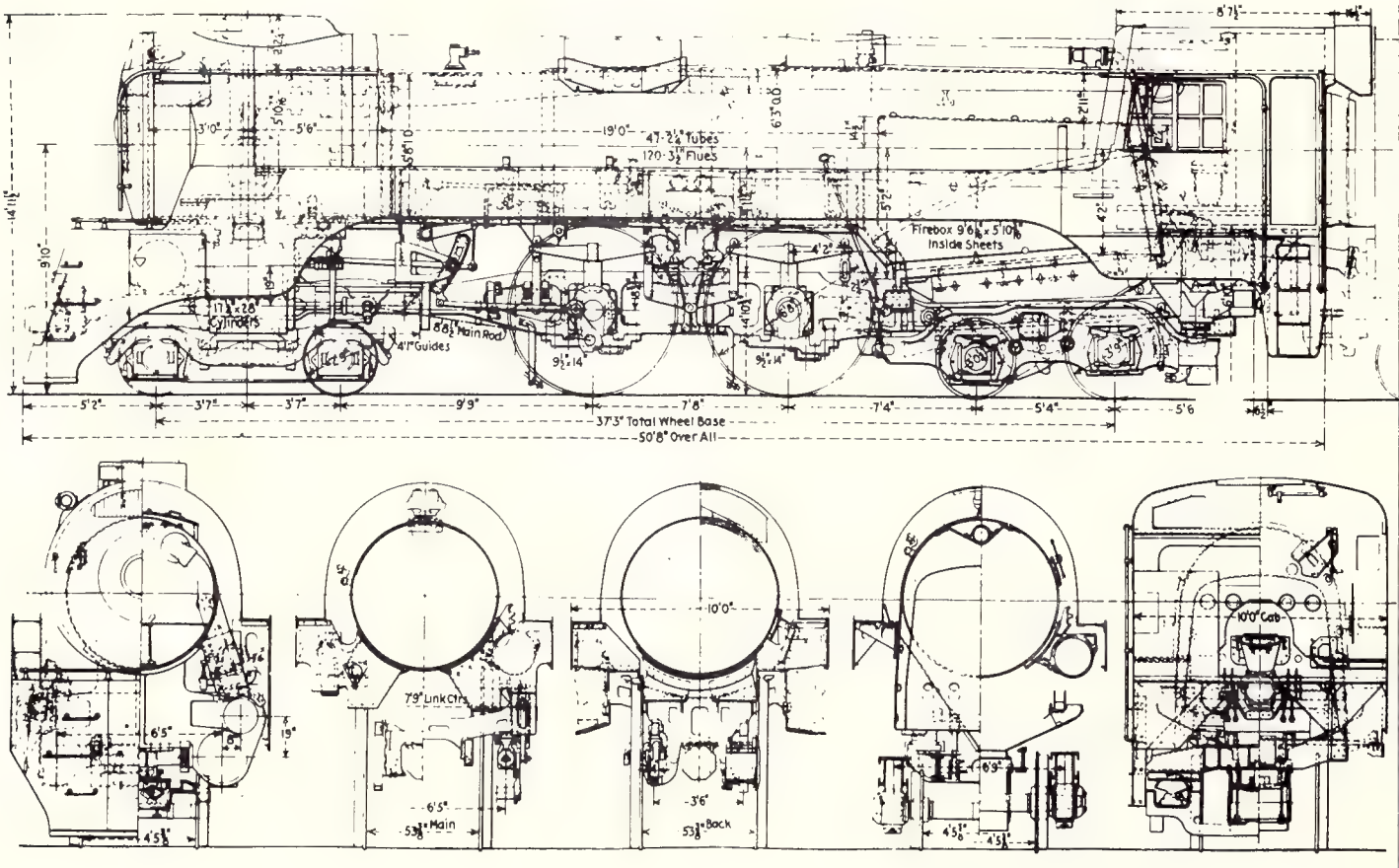
Chassis view shows third, or front, bearing necessitated by flexibility of floors back over trailing truck. With inside front corners of cylinders cut out and using plastic pilot wheels, engine will take 22" radius curve, will not go 18" radius; too much overhangs on long frame.

off with a jewelers saw and filed smooth. If the width of your cylinders permits you to make this nose piece exactly as the prototype, continue it straight back at the level of the top semi-circle. However I found that the Varney Laird crosshead type cylinders I used were about 11' wide to give good clearance for rods on most engines. Hence I had to fudge on the full shape of the pilot and on the skirts as well.

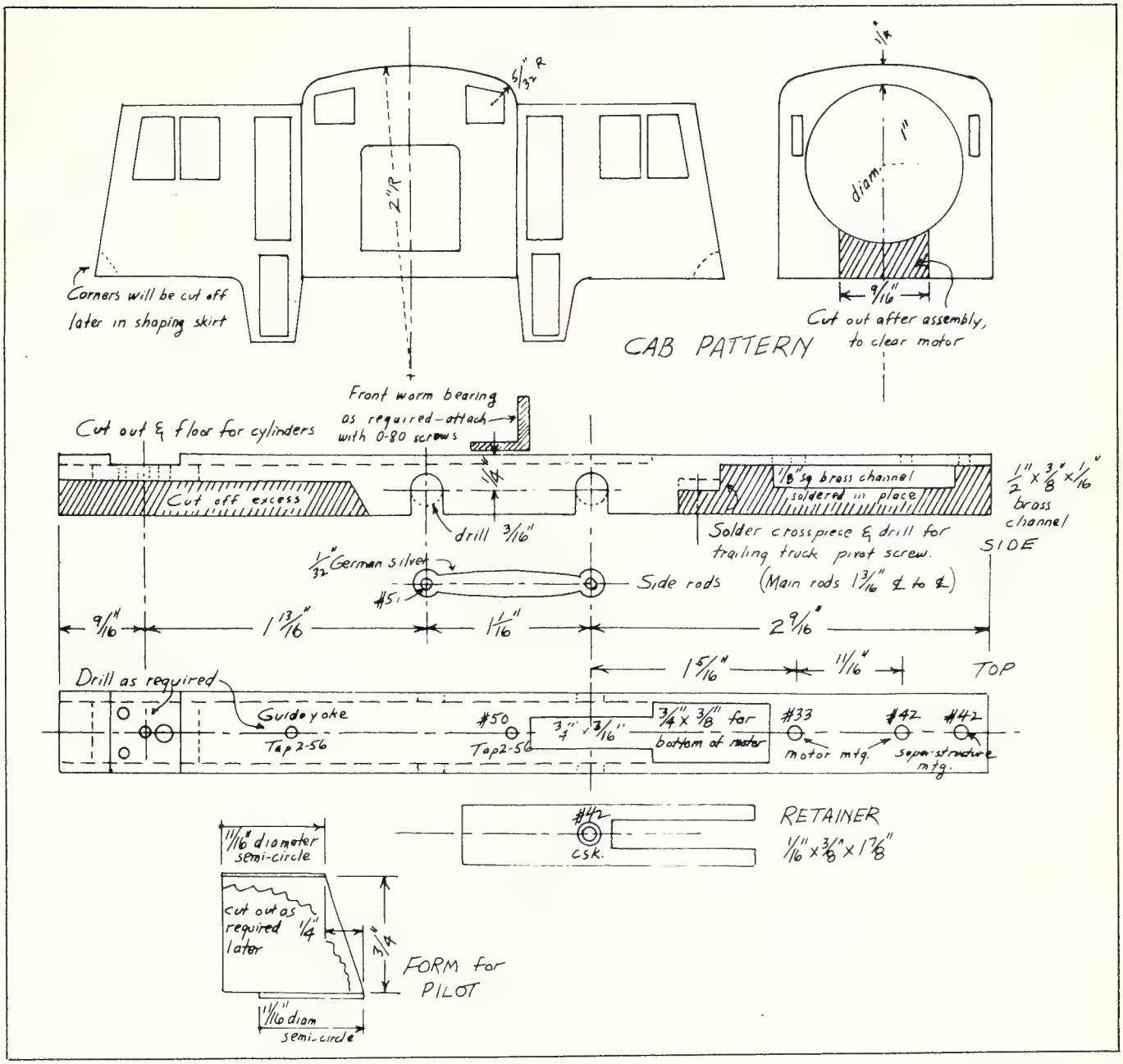
In doing soldering on such an intricate piece of work as the pilot, it is a great help to be able to hold it in your hand rather than rig up special soldering jigs. To this end I found that the greatest help in the world was an old leather glove, preferable lined, to fit the left hand. You can solder right up close to your gloved hand this way and it is a minute or more before enough heat seeps through to make you want to let go. A discarded right glove, by the way, can be used for handling parts that have been heated up by soldering or grinding.

Running boards are then cut from .020" or thicker brass and soldered in place from underneath. The skirt will conceal the solder, so you don't have to be fussy unless you just naturally are. Don't miss the little step at the front end of the running board, above the cylinders. The pilot is then screwed to the underside of the smokebox and reinforced with plenty of solder back underneath where it won't show. The skirts can then be added and triangular firebox sides soldered in and the superstructure is about done.

The stack is a piece of ¼" O.D. brass tubing soldered in place and then surrounded by a lot of solder which can be filed and cut away to form the streamlined stack that is so noticeable on the Jubilee. Not having a top view of the original I don't know just what else should show.



Plans courtesy Simmons-Boardman Publishing Co.



Possibly a closed hatch at the sand dome and a recessed opening with pop-valves and whistle at the steam dome. I compromised by showing none of these.

Under the left-hand running board, between the drivers, is a No. 122 Warren Elesco boiler feed pump, fastened with a 00-90 screw down through the running board. An air compressor occupies same site on the right-hand side. Air tanks are hidden, apparently one under the skirting, one on the pilot. There is a nice tank-like Elesco feedwater heater on the prototype, but it is ahead of the stack, down inside the boiler shrouding. The bell is concealed behind the cylinders, under the skirting on the left-hand side.

Super-structure is mounted by the long 2-56 screw mentioned, down through the stack into a specially drilled and tapped 2-56 hole in the cylinder block; and a shouldered 2-56 screw (as used for truck mounting) up through a No. 42 hole at rear of frame into the floor of the cab. Some spacers may be required at rear to level up the boiler. Drill all No. 65 holes for hand-rail posts before painting, but do not install them until after painting.

About the best I could do for a tender was one from an English mikado from which I removed the entire railed part as well as the front steps and platform. I roofed over the open front end with brass.

It has not been my intention to give you a complete play by play account of the construction of a Jubilee in HO, but rather to give you the data I worked with and an account of the general system I used. If you are ready to tackle building an engine from scratch, which is what this is, you are ready to devise your own changes and improvements in my scheme anyhow.

Parts List CPR "Jubilee" Steamer in HO

6" Channel Brass	$ .66
1 DC-60 motor	5.00
2 Mantua 6302 bearings	.30
1 Mantua 6301 bearing	.15
2 Mantua 1783 eccentric cranks	.30
1 Penn-Line worm from E-6	.50
1 Penn-Line 1700 box pok drivers (80") (may substitute Mantua)	1.65
1 Penn-Line 1701, same, with gear (may substitute Mantua)	2.65
1 Penn-Line 5302 trailing truck	2.50
1 Penn-Line P-855 lead truck	1.50
1 Varney 1848 consolidation" cylinder block	.60
1 ea. Varney 1781, 1782 guides	.70
2 Varney crosshead screws	.10
2 Varney piston valve bushings	.20
2 Varney valve guide bushings	.30
1 ea. Varney 1817 R and L, Laird cross-heads	.80
2 Varney 1808 main rods	.80
1 Varney 1783 valve gear kit	2.65
1 Varney 1625 airpump	.50
1 Warren 122 Elesco pump	.90
3 dozen Silver Streak handrail posts	1.50
2 short crank pin screws, any make	.20
2 long crank pin screws, any make	.20

tender shell, tender trucks, brass tubing, sheet brass, steel wire for handrails, hook-up, various 00-90, 0-80, and 2-56 screws.

NEW YORK CENTRAL'S
COMMODORE VANDERBILT

PLANS FULL SIZE HO GAUGE

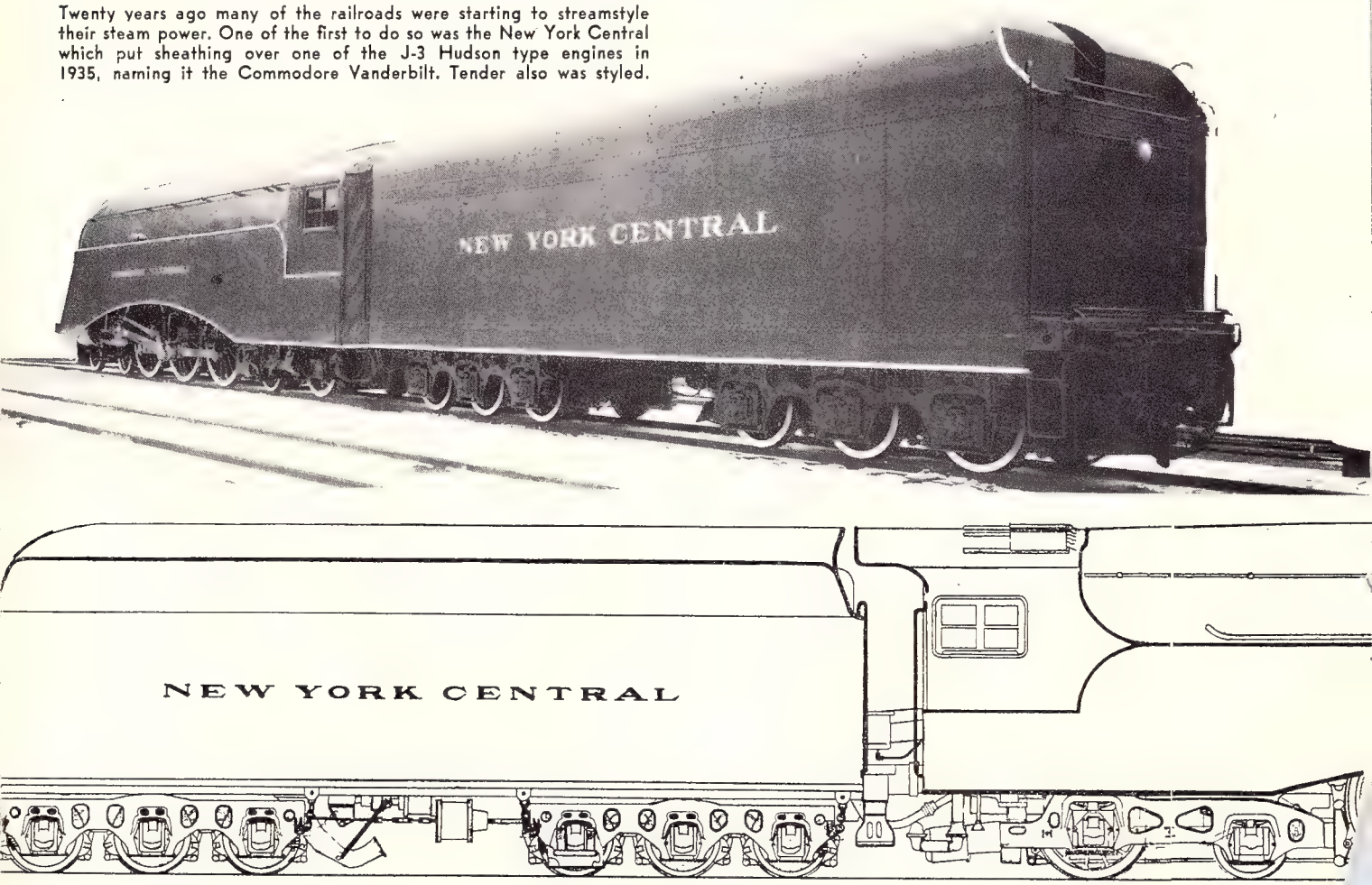
THE early Thirties brought with it a revolutionary new form of railroad transportation, the lightweight, articulated, diesel powered streamliner. It didn't take long for the fever to transmit itself to the executive offices of many of the big railroads. Within a short while, the orders went out to build new streamlined steam locomotives or put shrouds on older engines. One of the first to be so decorated was the famed New York Central J-3 Hudson, which was promptly put to work hauling the crack Commodore Vanderbilt.

This particular design lasted a few years only to be replaced by a later sheathing which permitted greater accessibility to running gear and other working parts. The later design also permitted easier viewing of the fine reciprocating gear with which these engines are equipped. World War II with its resulting metal shortages called an end to the streamlining effort. After that, steam locomotives on the Central once again assumed their powerful masculine appearance. Then began the reign of the elephant ear smoke deflectors, in turn superceded by the diesel.

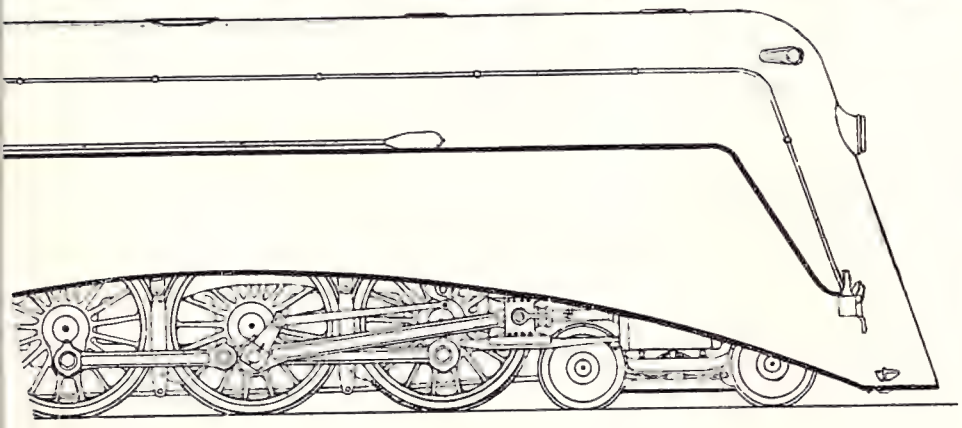
No commercial version of this locomotive has ever been available to the scale hobbyist although both Lionel and Marx offered small replicas with a 2-4-2 and 0-4-0 wheel arrangement, respectively. The streamstyling is of an extremely simple design, making is suitable for use on scale model Hudson locomotives on which the boilers have perhaps cracked.

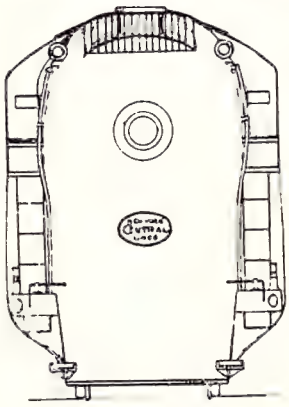
The streamlined steam locomotive met with mixed reaction from the model railroad fraternity. Many of the old timers thought it criminal to shroud a steam locomotive so as to hide all of it's features. Railroad mechanical departments found the streamliner hard to repair and maintain. The streamlined steam locomotive's reign was short.

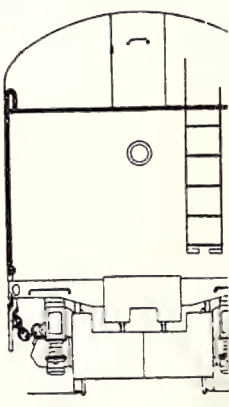
Twenty years ago many of the railroads were starting to streamstyle their steam power. One of the first to do so was the New York Central which put sheathing over one of the J-3 Hudson type engines in 1935, naming it the Commodore Vanderbilt. Tender also was styled.

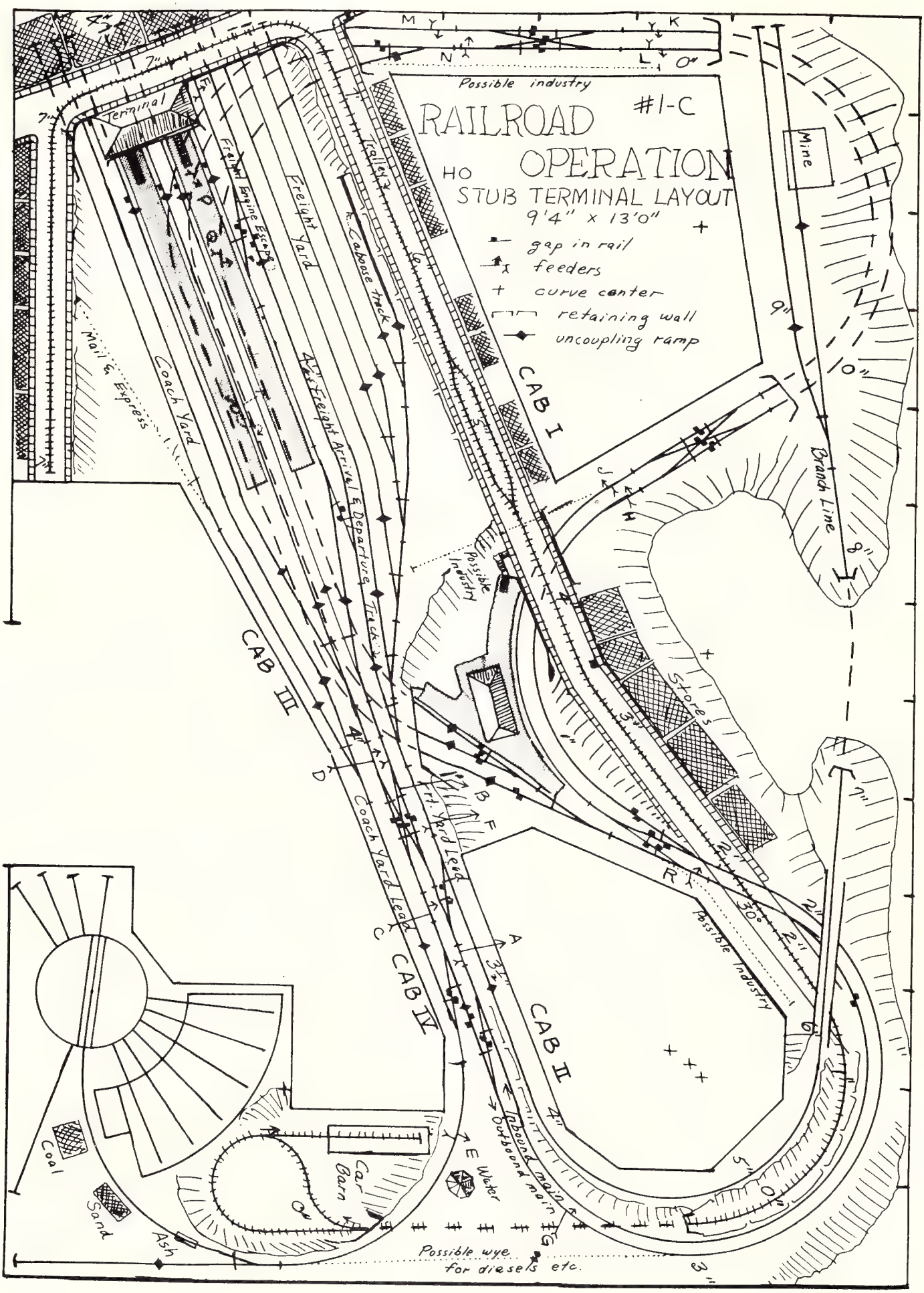


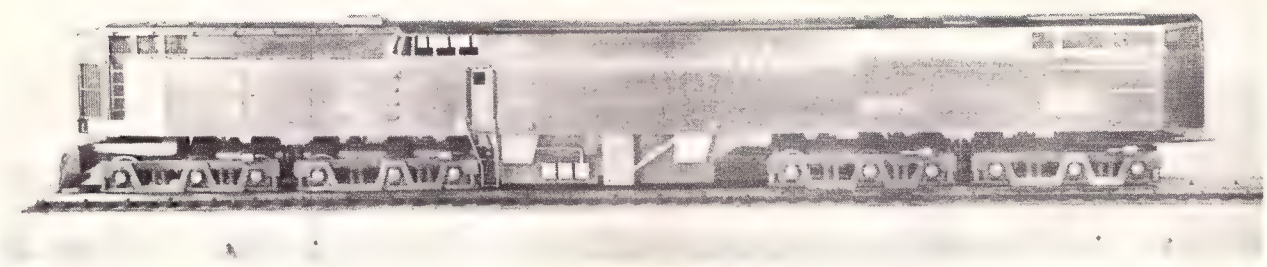
Blunt nosed sheathing hid details on one of prettiest steam locomotive designs of all time. Design was later changed and then eliminated altogether. Lionel and Marx both had tinplate versions of loco.








Possible industry
RAILROAD #1-C
HO OPERATION
STUB TERMINAL LAYOUT
9'4" x 13'0"
gap in rail
feeders
curve center
retaining wall
uncoupling ramp
Terminal
Freight Yard
Freight Engine Escape
Caboose track
Trailer
4" Freight Arrival & Departure Tracks
Mail & Express
Coach Yard
Coach Yard Lead
Frt. Yard Lead
Possible Industry
Stores
Mine
Branch Line
CAB I
CAB II
CAB III
CAB IV
Coal
Sand
Ash
Car Barn
Water
Inbound main
Outbound main
Possible wye for diesels etc.



The latest addition to the Mount Hope Railroad, of Henry Todd, Cranbury, N.J., is this monstrous Norfolk & Western steam turbine locomotive in HO, built entirely from magazine photographs, a few stray dimensions, and a good working knowledge of real railroad locomotives.

JAWN HENRY IN HO

Removal of the .020" sheet steel superstructure gives a better indication of the engine's size. Jawn Henry will take a 22" radius easily and will even squeak around a 20" radius if adjacent tracks are clear.

All 24 wheels are powered by a DC-91 motor. Truck frames were all cut out and soldered from brass, as are span bolsters and boat shaped main frame. Brushes on motor were rerigged to cut down on excess height.

Bottom view shows how wheels are driven by Lindsay gear boxes taken from L-625 geared trucks, remounted on tubing. Springs connect trucks on one span bolster; universal joints connect with hanging spur gear.

Wiring Your Model Railroad

Electrical work on your model railroad need not be difficult but it does require a clear head and some thought. Here's how the Doc does it.

by the Layout Doctor

HERE I have been presenting model railroad plans month after month for almost eight years, nearly all of them divided into 2-rail blocks, with correct locations for feeders indicated. And then I have, with few exceptions, been letting you "take it from there" by saying that exact type of control was up to you. Several years ago in an article I went into the various types of control, but there has been a great increase in the number of RMC readers, many just getting into the hobby with little or no knowledge or wiring a model railroad.

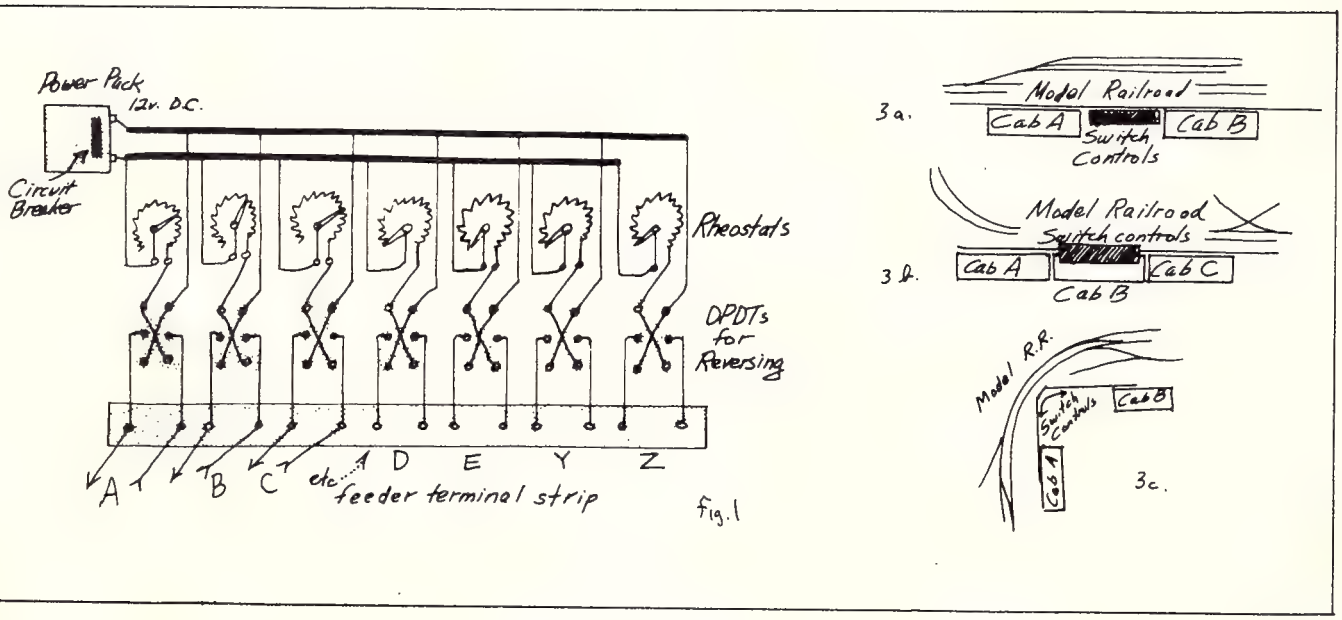
There are, to be sure, two complete books on wiring model pikes, but these, while cleverly written, are in effect like an algebra text: monumental works, containing everything, containing in fact too much for the average non-electrically minded fan to dig out what he wants without very intensive study of almost the whole book from definitions of volts, watts, and amperes to advanced circuits. I would like to try telling you as little as possible, yet enough for the work of wiring your own model railroad. A generalized (algebraic if you will) approach is necessary since I do not want to limit the applications of this article by applying it to any one particular pike plan.

If you'll look at track plans I have published in RMC in the past, you'll find "gaps" in the rails indicated by little black blocks on one side or the other. These must be kept open to avoid strange electrical feed-backs which make you wonder what on earth could have happened. It is quite useful to have some insulated plastic rail-joiners to use at gaps, which contain little filets of plastic to keep rail ends apart. You'll also see track feeder locations indicated as arrow heads and tails. The heads can be "plus", the tails "minus" or vice versa, just so you stick to the same system: in fact plus will change to minus once you throw your reverse switch.

Now on a small layout, such as the Ho-Pac Lines in Dec. 1955 RMC, it is quite practicable to have each of the two or three tracks controlled by a separate small power pack. These should as explained further in the March 1956 RMC be interconnected to prevent stalling when passing from one block to the other. But on a larger layout, say with two main lines, a yard lead, a branch line, and a reverse loop, putting a separate small power pack on each track would be electrically simple but financially onerous. On an even larger pike filling half of a garage or all of a cellar, a separate power pack for each block becomes almost impossible, financially, and limits the flexibility of the controls to one-man operation only.

The answer is shown in fig. 1. This is known as independent block control, but instead of the separate power pack with controls for each block as on small pikes, I have shown here ONE power pack for the whole railroad, with separate controls for each block. The one power pack need not have the capacity to run a train in every block at the same time, because you won't be doing that. For any but the very largest pikes wired on this system, a power pack of three to five amps. (in HO—double that in S or O) is adequate. It should not—repeat not—have controls, that is to say a rheostat (for speed) and DPDT switch (for reversing). Such packs are available. It is a good idea if it contains its own circuit breaker, but if not one can be added in one of the 12 volt output wires (or even one in the wiring to each block).

This single large power pack is wired to a very simple control panel as drawn. For each block you need a rheostat and a reverse switch. All of these are wired alike and for a panel with seven blocks as shown here it begins to look complex, but it is not because in wiring it you go down the line and do the same operation to each block—soldering in wires)—on an asembly line basis. For HO or TT gauge the rheostats should be about 40 ohms, 50 watts, but if you can find a good buy at under the usual five bucks the ohmage can range from 35 to 50, the wattage from 25 on up. "Taper winding" of a rheostat gives a more uniform variation in speed over the whole circle of the rheostat dial, but is not necessary. The DPDT switches should definitely have a center "off" position even though this costs a little more. A bat-handle



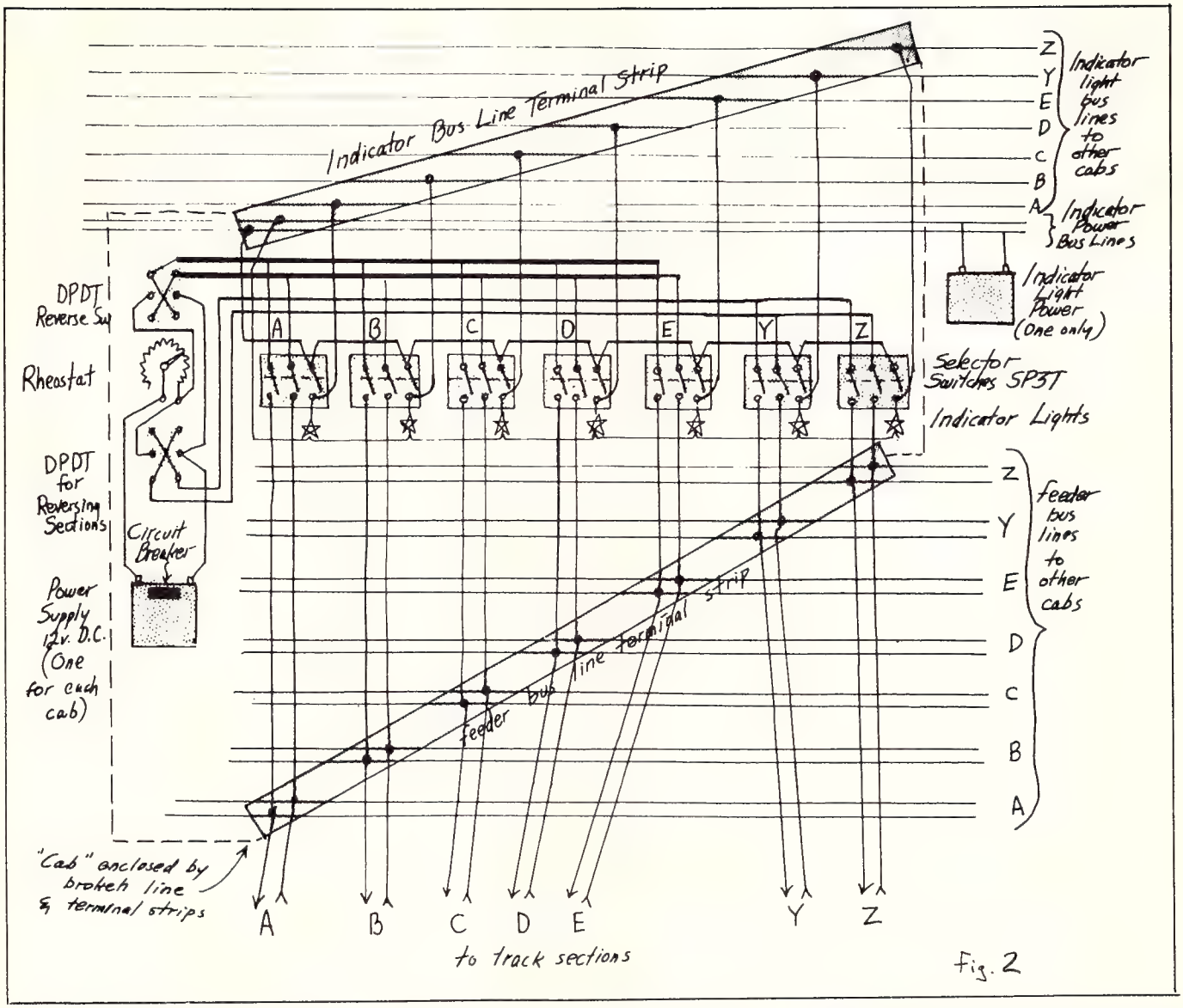


Fig. 2

toggle switch is the handiest, but you will find great economy in a simple miniature knife switch which you can buy at most any hardware store for under four bits. Toggles will cost you from six bits to two dollars. They should of course have positive action, that is they should not have a "spring return to center."

The terminal strip shown on the drawing is a very handy luxury to have. Fastened tc the back of the panel, it enables you to make it up away from the railroad, then connect up track sections as you please. Similarly you can disconnect any track section in trouble shooting work by unscrewing a terminal rather than unsoldering.

The lines running directly from the power pack across the top of the drawing are shown heavier than the others for a reason. You may find it expedient to use very heavy wire here or, probably easier for you, brass model railroad rail. This will carry a heavy current easily, as when several sections or blocks are running at once, and is easy to hook wires to and solder them fast. Such "through" wires are called busses, a term you'll hear more of later.

The whole control panel can be made on a piece of ⅛" masonite or even ¼" plywood. It can be made in the form of a box, but my own preference is to mount it jutting down from the edge of the platform, not sticking out at all. That way it will not impede your reach. By removal then of a couple of attaching screws at the top, you can drop the whole panel down into your lap for a little work or troubleshooting.

Now the trouble with independent block control, aside from the cost when the size of the railroad increases, is that only one man can work it at a time. Of course, like a piano, two *can* play at the same time, but it requires a lot of practice. It is better to have two pianos—or in this case, two separate control panels, one for each operator. There can even be three or four or more control panels if you think of each panel as a "cab" fom which the "engineer" can control his train anywhere on the railroad. Fig. 2 shows a typical cab control diagram for the same number of blocks as fig. 1's Independent Block Control. Somewhat more complicated in appearance, yes, but capable of being duplicated any number of times to make as many identical control spots as you wish, or as your railroad has operators.

Each cab has its own power pack, which can be a small one, without controls of any sort, although again I have shown a circuit breaker included. Wires from this run to a DPDT reverse switch and a rheostat, only one of each for each cab, a saving of money. A second DPDT switch is shown below the rheostat for use with reversing sections only. That is to say a wye or reverse loop, and if you wish, a turntable (but not necesarily).

You'll see two heavily drawn busses running across the top of the diagram from the DPDT switch, connecting with first two poles of 3PST block selector switches. If there are only one or two reversing sections (lettered up from the end of the alphabet Z. Y, etc.) the wires running across to them need not be heavy but just ordinary wires, but notice that

SPECIAL SALE
1942 ISSUES
RAILROAD MODEL CRAFTSMAN

ADD TO YOUR LIBRARY STOCKS ARE LIMITED RARE ISSUES ORDER NOW!!

February 1942 ☐
Frisco Mountain Engine (O)
Compact Portable HO Pike
Silver Solding Hints
Vanderbilt Tender (C&O)
A rebuilt Interurban—Schopp

March 1942 ☐
Heinz Venegar Tank Car (O)
A Quaint Water Tower
9x8 portable HO pike
Interurban Frt Cars—Schopp
Live Steam Fuels & Burners

April 1942 ☐
Canadian Pacific HO Reefer
Simple Block Protection Wiring
Frisco Heavy Duty 2-8-2 Austin
Interurban Frt Cars Part II
Live Steam Valve Gear

May 1942 ☐
Diesel Electric Switcher—Austin
Fire Trucks for your HO pike
Hotel in HO—Schopp
Interurban Layout for HO
Frisco 4-8-2 (Austin)

June 1942 ☐
Your Pike and War
Diesel Electric Switcher
Two Rail Automatic Blocks
Simplified Railroading (Hi-Rail)
Layout Contest Winner

July 1942 ☐
All Gauge Turntable
Bay Window Caboose
Streamlined Hiawatha 4-4-2
First Prize HO Layout
Track Tables for HI Rail
Semi Portable RR Layouts
Make your own Track Switches

August 1942 ☐
A DeLuxe HO Model Railroad
Build a Concord Fire Truck
Second Prize HO Layout
More on Table Work (Hi Rail)
Plan Your Mountains

September 1942 ☐
Build an 1895 Passenger Train
An 1872 Caboose (Bobber)
The Book of Rules for Modeling
Third Prize HO Layout
Streamlined Atlantic Part II
Sydney Suburban Cars
Track Limits for Hi Rail

October 1942 ☐
1875 Fire Station, Concord NH
Low Cost Rolling Stock
Build a Live Steam Tractor
Book of Rules Part II
Dinky—an early trolley—Schopp
Mating Tinplate Track
NYC Hudson Streamliner

November 1942 ☐
Innovations of Layout Building
Streamlined Atlantic Tender
Modern Aerial Ladder Fire Truck
Electrical Ideas for Your Pike
Roadbeds—How to Make Your Own

December 1942 ☐
65 Ton Diesel Electric Switcher
Prize Winning OO Layout
Build an Elevated Train—Schopp
Cuts and Fills for your Pike
Live Steam Tractor—Part II
Flags and Marker Lamps

All Copies 50c ea; Eleven for $4.00

Railroad Model Craftsman
Ramsey, New Jersey
Please rush me the back issues of Railroad Model Craftsman, postpaid, as checked below. Enclosed is $____
☐ Feb 42 ☐ Mar 42 ☐ Apr 42 ☐ May 42
☐ Jun 42 ☐ Jul 42 ☐ Aug 42 ☐ Sep 42
☐ Oct 42 ☐ Nov 42 ☐ Dec 42 ☐ Eleven 42

Name_____

Address_____

City & State_____

Wiring

they come from the special DPDT for reversing sections.

These 3PST switches may be hard to find and expensive when you do find them as regular toggle switches. The things to get are simple key type switches as sold in radio stores for a little over six bits each. These are made by Centralab and other manufacturers. The ones to get actually have four poles, and two positions, but by not using one set of poles and not wiring to one of the positions, you have in effect 3PST switches. The third pole is used to light up an indicator or pilot light to show that you (or some other engineer) "have" that block and others should not try to take over control of it. These indicator lights will be on each cab panel. They are symbolized by stars.

Now the twin wires from each selector switch run down to a "feeder bus line terminal strip" at the bottom of the drawing and at the back or side of the actual cab. The single wires from the lower third terminals of each selector switch run "up" to an "indicator bus line terminal strip." The line running across to feed the indicator light upper terminals of the selectors is not shown as a heavy bus line either, but as a simple wire ducking down to connect with each terminal in succession, since it does not have to carry a heavy propulsion current.

The "indicator light bus lines" at the top, and the "feeder bus lines" at the bottom need be only heavy enough to carry the propulsion current for one train each, No. 18 wire in most cases, maybe even No. 20. These connect cab A with cab B with cab C, and so on. For a complete wiring diagram for a given number of cabs (assuming I have drawn the right number of blocks—if not you can add on or subtract in redrawing) simply have photostatic copies of the plan made and match them up so that the various light and feeder bus lines connect with each other. The cab drawn is assumed to be a middle cab, but a cab at left would not have these wires extending left from the terminal stris, npor an extreme right cab have them extending past it to the right. The terminal strips are placed on the diagonal simply for ease in depicting the hook-up. You build the whole cab at a convenient place, label your terminals, then hook up the bus lines.

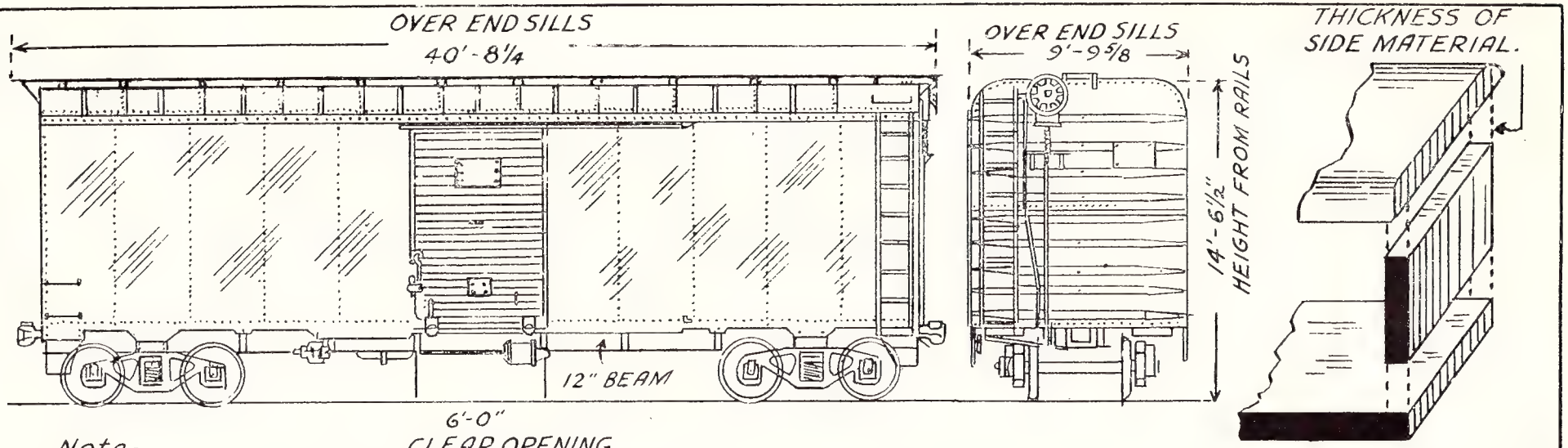
Whereas each cab should have its own 12v. D.C. power supply, there need be only indicator light power supply for the whole system, which should be of a voltage suitable for the bulbs used—six volts is common, and it can be A.C. for lights of course. When a selector switch is put "on" in any cab, it lights the indicator light for itself on that cab and for all other cabs on the system showing that that engineer "has" control of the section. The light will stay on as long as the selector switch is on, irrespective of whether the propulsion power is actually on in the section (as determined by the DPDTs and rheostat).

At the bottom are pairs of wires running to the track sections. These need come from one terminal strip only, although there would be no harm, only extra work in running them from all cabs' feeder bus line terminal strips.

It can be shown (and it has been done) that actually only one wire need run to one rail from each cab (excepting reversing sections), the other wire being taken care of by a common return to all power packs and cabs in the system. This is the so-called common rail system—actually common return — which simplifies wiring but complicates trouble shooting. For more details on this system you'd better see one of the wiring books, with a good supply of Anacin. As you might gather, I don't think much of it simply from the trouble shooting angle.

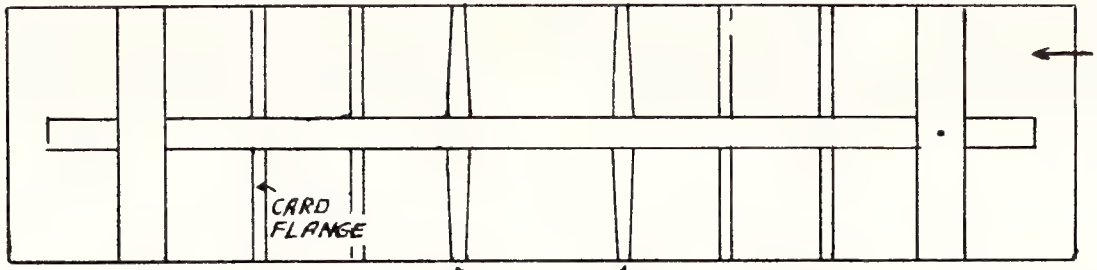
The matter of switch controls is something to be taken up in another article, but I would like to make some comments on the relation of the switch control panel to the track current (propulsion) control panel. Of course with Independent block control they can simply be on the same or adjacent panels. But with several cabs, a mutually suitable location for a single switch control panel is desirable. Fig. 3a shows it between two cabs. Fig. 3b shows three cabs, with switch control panel above the center one. Fig. 3c shows how two cabs can be located on the legs of an L, with switch controls flush in the angle of the L. Avoid putting any control panel across the angle of the L where I have the words "switch controls" because it will inhibit you reaching switches and trains. Better put controls along the sides of the L. Where cabs are located remote from each other, switch machines may of course be wired with control buttons or levers in duplicate at each cab—if not all switches, then ones essential to that cab.

In case the thought of "all that soldering" appalls you, forget your fears. Soldering of copper wires to pre-tinned lugs on switches and rheostats is about as easy soldering as you'll find. To me the most onerous job is stripping insulation from the ends of all those wires.



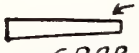
Note~
FOR HO PLAIN CARDBOARD SIDES MAY BE USED WITH STAMPED DOORS. EITHER DOT IN THE RIVETS OR PENCIL THE LINES & SCRIBE.

ASSEMBLE AS ABOVE
SIDES GO ON LAST



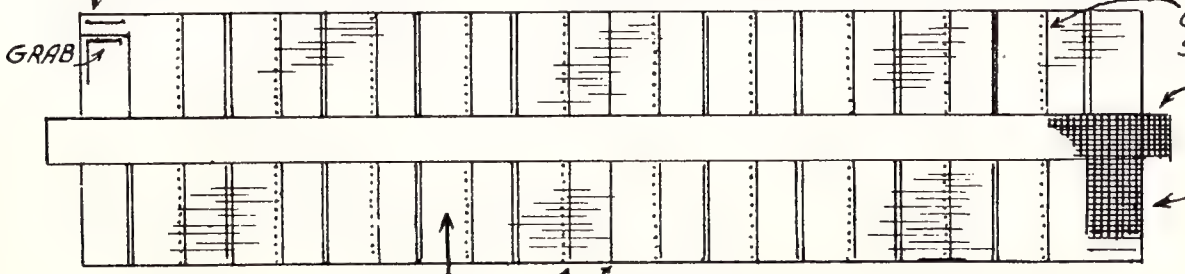
UNDERBODY
DETAIL

A.A.R. BOXCAR
FULL SIZE HO GAUGE



CROSS BEAM
SIDE VIEW

THESE CROSS BEAMS SAME EXCEPT
HAVE TAPER FLANGE OF CARD BOARD



OVERLAPPING
SEAM & RIVET LINE

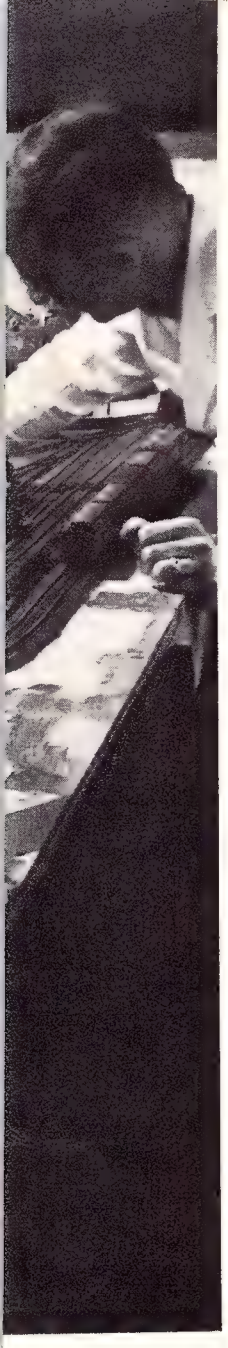
"CHECKERED" APEX TYPE RUNNING
BOARD ALSO END WALK.
TO CONSTRUCT: CEMENT TINFOIL
BACKED PAPER TO WOOD STRIP.
TRIM THEN SCORE THE CHECKS.

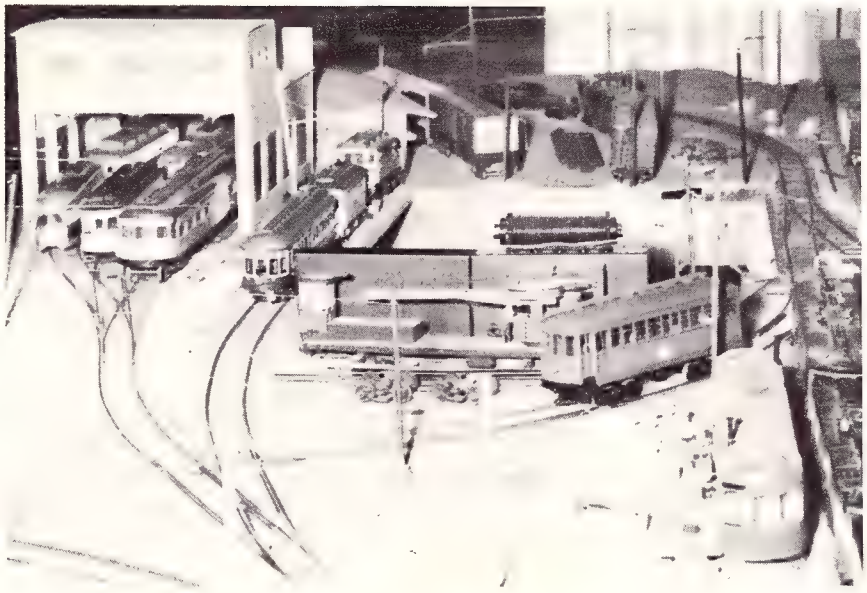
ROOF
DETAIL

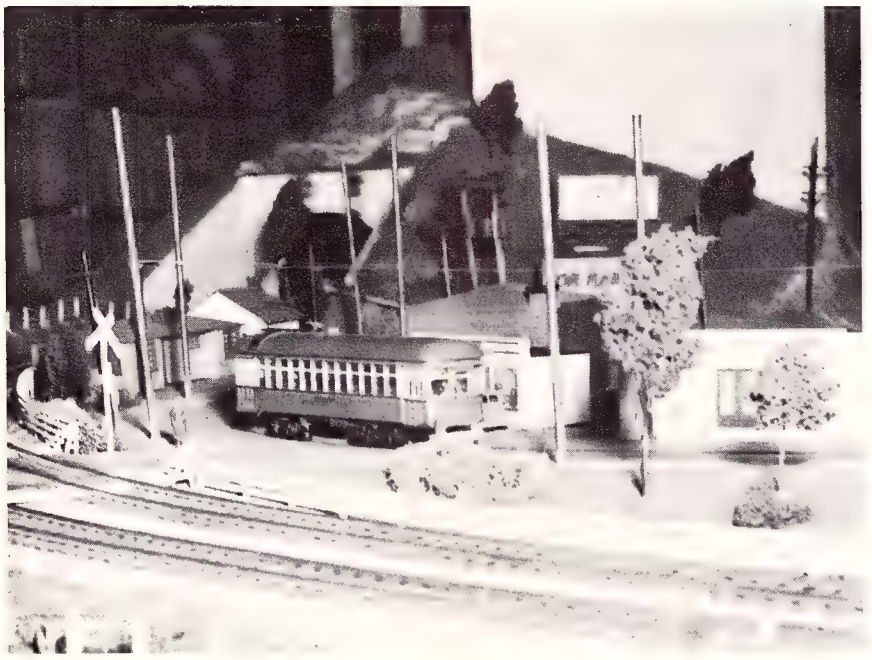
PENCIL LINES AND SCRIBE
MARKS WILL SIMULATE THESE IN HO

VALLEY FARMS

YOUR NABORS PIKE







Getting drafted? Try for the Army Chemical Center in Maryland and you'll be able to join Privates Harry Brown, Phil Johnson, and Art Goodwin. This club layout was made possible through Special Services; is open to both military and civilian personnel at post.

ABOVE: East End trolley division shows the O gauge terminal and the Elsner Shops of the Missouri & Kansas Model RR Club, Inc. The club has about 100 ft. of overhead operated trolley line, rr. interchange.

BELOW: Kansas City Northwestern's KCPS 1136 making turn to go back from west end of Mo-Kan Belt Line. Mo-Kan main line in foreground.

Who else has run a miniature fantrip? Here's an ERA Railfan Safari rumbling along on the United Electric Lines of the Central Jersey Model Railroad Assn. It must have been either very cold or raining fiercely since there isn't a fan hanging on anywhere outside the cars.

the layout doctor describes an

ORE & LUMBER RR

There's plenty of model railroad operating fun in this medium size pike. Modeled after lumber and ore roads operating in our mountain states, it can be built in easy, budget priced stages.

THE Mountain States Ore & Lumber Co. R.R. has the nickname of "The Mountain Line" and a mountain *lion* "rampant" for part of its herald, appearing on freight cars and cabooses. Engines and passenger cars bear the lettering "Mountain States", while freight car reporting marks are MS. I just thought you'd like to know because you may see such equipment sometime in your travels, for the little 5 by 12 foot HO pike described this month has prototypes though to be sure it doesn't have the same name. It is a combination of the necessities of *model* railroad operation with the realities of *real* railroad running in those parts of the mountain states where ore and lumber are still brought out by train instead of highway.

Contrary to the procedure of many of my model pike concoctions, this layout should be begun, once a big Homasote platform has been made, by the construction and control of the yard and engine terminal. With this much done and the industrial spur at front right as a switching lead, you can keep a switcher busy during operation sessions shuffling cars around the yard. Meanwhile, the second step is the completion of the yard lead oval. This disappears into the double track tunnel at right, runs down the back of the table, and reappears at the left end of the yard, by the caboose track. The purpose of the oval yard lead is to give a place for continuous running of trains without regard to grades and on maximum radius curves, in this case 22". True, the switches are all No. 4 which is around 20" radius, but even these could be altered where important to pasage of "yard lead oval" trains and made No. 6s (30-36" radius), although they have not been drawn this way.

At this point you have a circle and a yard and you can run trains while working on the rest of the railroad. Before starting uphill, it would be a good idea to lay and complete the lower reverse loop, which ducks into a tunnel by the engine-house and emerges again over near the caboose track. Mind you this layout has *three* reverse loops which is really not as luxurious as it sounds since each one serves a purpose besides reversing trains when required. This lower reverse loop of course can be used to reverse engines (there being no turntable) and trains, but when you feel like some railroad operation you can utilize it as *two* interchange tracks, setting cars out at one end, later picking them up from the other end. An entire short train could be hidden in that tunnel, ostensibly until it has time to go to a distant city and return. Similarly one or two trains could be concealed on the rear portion of the yard lead oval. There is another interchange track, cutting off the main line at a Y switch and running down the right bank of the creek on 16" radius and disappearing behind the hills. Nothing like having lots of places to serve as origin and destination of cars and whole trains—just picture a gas-car shuttling back and forth on the creek interchange.

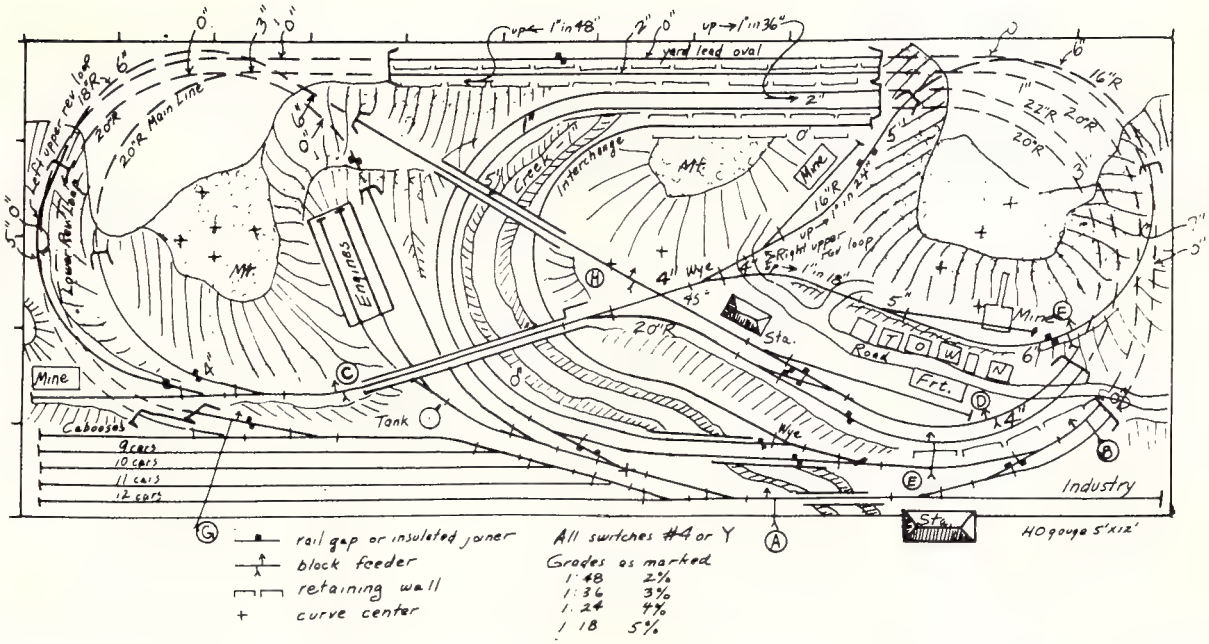
The main line starts up the left bank of the creek on 22" and 20" radius, immediately starting to climb a 3 per cent grade. At least we call it that, but for purposes of easy construction, it is a grade of 1" in 36" which breaks down to ¼" rise per 9" of track. This double track section switches into one at the top of the hill, elevation 4", where single track begins. The single track croses the creek on a spidery trestle, then curves around to the back to begin the downward passage again, but on an easier grade, 1" in 48", ¼" per foot, or what I call 2 per cent because it is so close to that. This is the second track in from the back edge. It comes out of the tunnel at front right apparently as part of a double track line, but the outer track is the yard lead oval. Thus we have a main line in the shape of an "inside out figure 8" or "twice-around oval" on two levels. It consists of part single, part double track so that with a little waiting at ends-of-double-track, two trains could be run in opposite directions simultaneously.

The upper right reverse loop compliments the lower rev. loop but because of the lay of the land (or rather of the tracks), it must have 16" radius curves and pretty steep grades—one grade is 1" in 24" or 4 per cent, the other 1" in 18" or around 5 per cent. Naturally, when it is necessary to turn a whole train, you run it UP the lesser grade, down the steeper one. The upper left reverse loop duplicates the function of the lower one and is not really needed for reversing purposes. However it can be, as the other two rev. loops, a sort of double ended interchange track. Cars can be set out at one end, picked up by an engine and pulled out the other end later on, or even out the same end. It can be alleged to lead to remoter parts of the system.

These two upper reverse loops along with the stretch of main line track across the bridge (electrical section C) could be thought of as THE Ore & Lumber Co. Railroad with some other name given the rest of the system. For motive power I can think of nothing better than a Shay geared engine, what with the steep grades and sharp curves. It can handle short heavy cuts of ore cars and even trains of logs. If either reverse loop is to handle log buggies, the tunnel on it should be omitted since tunnels as you can well imagine are not welcome on lines which carry logs—just let the loop disappear behind the mountain. The Shay can gather cars or ore and/or logs, bring them to the junction where they can be coupled to a road engine and taken down to the yard. There another road engine can take them over for carriage to a distant destination. Alternately the "industry" at lower right could be the Suydam ore processing plant, a destination for ore cars, a source for loaded box cars of concentrate of whatever ore it is.

Electrically the system is divided into blocks, each of which should have its own reverse switch and rheostat for speed control, although I recommend only one power pack for all, of 3 to 5 amps capacity and without controls of its own. This infers what is called "independent block control." You could also have "cab control" wherein there is only one reverse switch and rheostat for *each* cab, switchable to any of the blocks at will. There can be as many cabs as desired, two or three would be best, each with its own small 1 amp. power pack. Block A is the yard and yard lead; B, the single tracked main line; C, the same across the bridge where the Shay might use it; D and E the double tracked parts of the main line; F is the upper right reverse loop; G the lower reverse loop; and H the upper left reverse loop.

For motive power, of course a Shay for branch line work on the upper level. If that is too expensive for the moment, an 0-6-0 switcher such as the Big Six or Roundhouse Switcher could be used. The main line I'd like to see worked by diesel road switchers—the Alco, as by Hobbytown; the GP-7 as by Tenshodo, IMP, or Lawrence; or the SD-9s as by Tenshodo. Can't you just picture the growl of a pair of SD-9s hitting that 3 per cent grade with a string of short ore cars. Then I'd say one small steam engine for light pasenger work, perhaps a Casey Jones 4-6-0 or a Mantua mogul. Cer-



MOUNTAIN STATES ORE & LUMBER CO. R.R.

tainly no Pacifics, but a mikado or Berkshire might be used if there were not enough road switches. I doubt if an RDC would fit, but a Walthers gas car shortened up a little would be nice, or one of Ken Kidder's McKeen motor cars. For pasenger work on the branch lines, a Kemtron rail-bus would be good.

The cars would lean toward ore cars and log buggies, but with a good sprinkling of box, cattle, gondola, oil, and flat cars with other road names. Three cabooses should be ample. For passenger service I'd suggest short open end cars like Mantua or slightly longer open enders as Ambroids (which could be cut down). Even the usual "shorty" passenger cars of standard or streamlined type are a bit too long for this sharp (from a scale standpoint) curve operation unless Talgo-type trucks are used under them. Let's suggest a baggage-mail car a combine, a coach, and a couple of express reefers, the latter lettered for other railroads or companies.

One problem peculiar to this pike will be the switch at the right end of the long bridge across the creek valley. It would be difficult to mount a switch machine here, hence I suggest that this switch *at least* be one of the Atlas Custom Line with switch motor right at track level. Another peculiar problem will be access to the rear tracks when things go wrong as they will: five feet is an awkward width for a layout because it is beyond your maximum reach, yet it seems silly to have a pop-up opening. One answer would be to have the mountains at left and right hollow, with open backs so that you could reach tracks there. An even better idea would be to have the back of the table accessible somehow, even if you have to crawl under to reach the access alley. A sturdy enough table of course could have casters on its legs. Another problem is how to make the creek which is the only part of the layout that would be lower than the table. The solution is to mark out the creek *after* tracks on both banks have been laid, then create the creek bed merely by pelling off an irregular layer of Homasite. It is ½" thick, so you can peel out ⅛" or more without damage since the main structural strength comes from the framework of 1 x 2 or 1 x 3 lumber underneath (space crosspieces not more than 18" apart). Paint creek bed with cheap blue or green or brown (depending on the color of the water) paint thinned out with turpentine since plenty will sink in. When dry, coat top with several layers of varnish and you will have a reasonably artistic creek.

The editor has asked me to indicate the size of this layout for other gauges than HO since after all some of our readers are in O, S, TT, etc. This goes against my principles since I have always contended that to shift gauge on a layout plan simply by increasing the size of the table, etc. is bad business, and I have in fact criticized other magazines for doing that with ridiculous results.

There is certainly no reason why you could not build the whole layout in TT gauge. The best thing to do would be to retain the same over all size and principle curve radii, but move double track and yard track spacing from 2" center to center (as in HO) down to 1½" CL to CL. The buildings and cars would be smaller and it would seem to be a much bigger railroad. However you could reduce the size in the radio of the center-to-center track distances, which would let you have this pike in a space approximately nine feet long and less than four feet wide.

When you *increase* the track gauge of a layout and its size accordingly, you run into serious problems of access to switches that were considered solved when I was in the smaller gauge. Using ratios of track center distances, in S gauge this pike would be seven and a half feet wide and eighteen feet long: in O gauge it would be ten by twenty-four feet. But whereas the switches at the front of the upper level around the 45° crossing are between two and three feet back in HO, within reach of the operator at the front, in O gauge they would be between four and six feet back. Hence you would have to omit the center mountain to make an access space. Curve radii would be ¾ of those given for TT, 1½ times those given for S, and double those given for O gauge. Switches would remain the same number. Wiring would have to be revised as per directions included in box for 45° crosings in gauges other than HO, since they are not insulated, being what is known as the continuous crossing with no weeny eletcrical dead spots. Elevations would be decreased or increased again in ratio of track center distances—¾ for TT, 3/2 for S, and double for O.

LOOKING structures electricity CAR PLANS FOR SOMETHING?

Whatever your pet interest, you'll find plenty of articles on the subject in back issues of RAILROAD MODEL CRAFTSMAN. Build up your back issue library now while stocks are still complete.

1953 – 12 ISSUES — $3.50

JANUARY
Donaldson Local Freight
Uses For Mailing Tubes
ATSF Water Plant—Part 1
Narrow Pikes—by Layout Doc
HO Snow Plow, Express Reefer

FEBRUARY
ATSF Water Plant—Part 2
How To Compose Model Scene—Ellison
5 Small Building Plans
Rolling Country Landscape—Wakefield
BRB&L Blueprints, ST Birney: O

MARCH
Constructing 4 Bridges—Ellison
55 ton Hopper Car—HO
Baldwin 1000 hp diesel: Crater
Trolley Track Work—All Gauge
Principles Of Good Layout Design

APRIL
Belvidere & Delta RR: Undermann
Reading 4 wheel caboose—HO
ATSF Fuel Oil Supply—Giebner
BLW Shark Nose Diesel A and B—O
Constructing 4 Bridges—2—Ellison

MAY
Constructing 4 Bridges—3—Ellison
Multi-Level Layouts—Layout Doc
80 ft. Wooden Dining Car—Carstens
1863 Mail Car, 1863 Coach—O
Bunk Car, 50 ft. gondola—HO plans

JUNE
ATSF Sand House—Giebner
ATSF Telephone Shack—Giebner
Reducing A Track Plan—Layout Dr.
Wiggle Inn—Ellison
PRR 2-8-2 Electric Loco Class L-5—O

JULY
Elevated Gate Tower—Giebner
Create & Operate A Terminal—Ellison
D&RG On3 2-8-0 Class C-19 Blueprint
4x8 foot Layouts
Reading Steel Caboose—HO

AUGUST
Coaling Station—Part 1—Giebner
Model Railroading In Britain
Make Figures Of Plastic
Expandable Layouts
Long Island RR 2-8-0C H-51a Plans

SEPTEMBER
Scenery From A To Z—Ellison
Sanka Way Railroad—Schopp
Power Packs—Richardson
BT Birney Trolley
Twentieth Anniversary Issue

OCTOBER
Panamint Valley RR—Campbell
Positive Slow Speed Control
Detailing Mantua Pacific
Sanka Way RR—Part 2
Five Full Color Cutout Bldgs.

NOVEMBER
Cinder Conveyor—Giebner
Add A Branch Line—Layout Dr.
Coaling Ramp—Cochran
HO Gas Turbine—Part 1
Small Terminal Color Cutouts

DECEMBER
Manual Block Control Tower
2-8-0 From MDC 0-6-0 In HO
Build Your Own Turnouts—Ellison
Medium Sized Railroads
Small Engine House Cutouts

1952 – 12 ISSUES — $3.50

JANUARY
Ping Pong Table Layouts
Let's Operate—Mallory
Foolproof Switch Controls
Budd Rail Car—RDC-1, 3, 4
Modeling Old Buildings

FEBRUARY
Mule Train Barney
Three Legged Framework
Interlock Signalling
Railroad Car Ferry—Schopp
Railfan's Notebook—Bartholomew

MARCH
High Level Station—Schopp
B&A Pulpwood Cars—Willmore
Icing The Reefers
Better, Quieter Track—Houghton
Planning A Layout Design

APRIL
The Pacific Type—Alexander
Tricks Of Tracklaying
D&RGW Modern Control Tower
Trolley Line Car—O—Carstens
RMC Layout No. 3

MAY
Sandy River RR—Andrews
Working Power House—Burgess
Work Car NG—Wilhelm
Switch Tricks—Houghton
Aunt Teek Furniture Factory

JUNE
Spotlight RR Crossings—Ellison
Home Of Shake's Beer: Brewery
Operating 2 Trains At Once
Opearting Crossing Gates
Official Car (60' Wood Observation)

JULY
Skew Bridge—Ellison
Build A Burlesque Theater
DL&W 2-6-0C Blueprints—O
Boston El Brill Car—1906
Some Big Layout Designs

AUGUST
Gauntlet Tracks
Old time 4-2-0 In HO
Modeling A RR Cut—Ellison
Ferry Terminal—Carstens
Pennsy 1869 4-4-0—O Blueprint

SEPTEMBER
Magic Of Hills—Ellison
Little Bit Of Texas—Giebner
Two Railing—Schopp
O Gauge Trolley Roofs—Perry
GN 4-6-2 H-7—O Blueprint

OCTOBER
MILW 30 Ft. Flat—Stehle
Umbrella Sheds—Ellison
Inverting A Layout
SR&RL Phillips Yard—Andrews
C P Huntington—O Blueprint

NOVEMBER
Radio Control Tower—Giebner
Coffee Table Layout
Dual Gauge RR Layouts
Type A Tank Car, 1912 Boxcar
Overhead Concourse—Ellison

DECEMBER
Bank Building—Giebner
Scenery Modeling—Houghton
Carters Little River Mills
B&O 4-6-2 P-1d—O Blueprint
Elliptical Station—Schopp

1951 – 12 ISSUES — $3.50

JANUARY
The CNJ at Plainfield
Stub Terminals
HO Paycar by L. Austin
Automatic trolley Turnaround
Mason Vixon Lines (O)
Brill Rail Bus

FEBRUARY
8-Ball Loco. Works, by Brunger
Erie 135 ton flat car
I & G RR (HO): Bill Miller's
NYCRR Fire Fighting Car (O)
Herts—The future of O gauge
Double Gauge Turnout

MARCH
SP Gerber engine house (O)
Frt. traffic at a cement plant
CNJ 0-8-0 camelback (O): Crater
Korean and Japanese models
NYCRR caboose (HO): Deutsch
Lights and chickens: Crosby

APRIL
Mt. Washington Cog Ry
1915 gasoline loco. (HO)
NYCRR Caboose (HO): Part 2
Abbottsville & Western RR (S)
Gay Nineties Stations
Foldaway layouts

MAY
RMC Layout No. 2
Poultry car (HO): Miller
NYCRR Caboose: Part 3
Trestle bridge
J W Bowker in HO
Retaining Walls

JUNE
Semi-well pocket flat car (HO)
Vinegar Valley Lines (HO)
Freight Station: Brunger
Model Carrying Case
J W Bowker (Part 2)
NC&StL K-2 Pacific (O)

JULY
Auto coupler (HO): Prudhomme
Kenn Valley Lines (HO)
Little Louis 0-4-0 (HO): Schopp
Planning a model rr: Martin
Double slip switch in HO
4-4-0 from C P Huntington (O)

AUGUST
100 years on th Erie RR
Covered Cement hopper (HO)
Automatic coupling ramps (HO)
Cellar railroading: J. Kemp
Planning a model rr: Part 2
Double slip switch: (Part 2)

SEPTEMBER
2 pint size pikes in HO
Visible frt. car loads
Ute Short Line: Earl Cochran
The Electra Switch Machine
Pickle Car—HO—Miller
Diesel servicing

OCTOBER
Layout Doctor with 4 layouts
Fooling your spectators
The Silvertta Road (HO): Steen
Troop Sleeper (HO)
Remote control hookup
Kemtron's Brill Rail Bus

NOVEMBER
Hump Yard Design
Locomotive headlights
Converting the Mantua "Belle"
Converting the Varney "Little Joe"
Slope back tender—HO—Miller
V&T Flat car plans (O)

DECEMBER
St. Louis TRRA: Carstens
Clearance Car—HO—Schopp
Baldwin road switcher—HO
Simple Wiring—Houghton
Frost on th layout—Crosby
Model Hump Yard

1950 – 12 ISSUES — $3.50

JANUARY
Citrus Empire RR (O)
Corner engine terminal-
Hints on trolley wire
South Dakota Central RR (HO)
C&NW 4-4-0 No. 195—HO Plans
MoPac Gondola (O)

FEBRUARY
Protostory: Bronx Frt. Terml.
Bumping posts (O)
Scenic Landscaping: Dance
Using electronic control
TARS semi-conv. ST No. 1701
American Flyer Wide Gauge

MARCH
Chicago Museum Model RR (O)
RMC Layout No. 1: Design
Forming city backgrounds
NKP Also and BLW diesels (HO)
Painting the scenery: Dance
SOU & EREX Hopper car plans (S)

APRIL
Cleveland RR Club O gauge layout
Modeling Culverts: Dance
Trolley Express Car: Long Valley (O)
RMC Layout No. 1—trackwork
GN EMD pass. diesel (S)
Virginia & Truckee 4-6-0 No. 26 (HO)

MAY
The Panama RR (protostory)
CNJ No. 1000—the first diesel
Modeling Culverts: Dance
50 ton dump car (S Plans)
Trolley Express car—Part 2
DL&W 4-4-0 No. 988 (S plans)

JUNE
Outdoor RRing: Long Valley O line
LATL Rail grinder (S)
Tender truck boosters (HO)—Austin
V&T combine and baggage cars (HO)
CofG 2-8-0 No. 200-214 (O Plans)
CNJ first diesel—Part 2

JULY
USRA light 4-6-2 (HO)—Part 1
CNJ Newark Terminal: Crater
EG atlantic in HE (1/16) Gauge
Economy motor truck: Long Valley
Foldaway Model Railroad
MKT Caboose (HO)—Austin

AUGUST
CNJ 4-8-0 camelback (O)
Modeling waterways: Dance
Grand Valley RR (HO)
C of G 0-6-0 tank engine (S)
USRA 4-6-2—Part 2
C&O detailed caboose (O—Part 1)

SEPTEMBER
Truss bridge: Dance
Building grades: Schopp
NCNGRR tank car (HOn3)
C&O Caboose—Part 2
USRA 4-6-2—Part 3
CNJ early automatic signal (O)

OCTOBER
Venango Northern RR—Livingston (HO)
CNS&M B-B-B-B—Soverel
Rdg 2-10-2 (O)—Crater
USRA 4-6-2—Part 4
Coaling station—Dance
C&O Caboose—Part 3

NOVEMBER
2'x8' HO railroading
Grusome's Grain Mill (HO) Brunger
Rdg 2-10-2—Part 2
Designing a layout
USRA 4-6-2—Part 5
3 MU cars from 2 Pullmans (O)

DECEMBER
Showcase for your models
Brill rail bus in HO
Use black light on your railroad
The Channel Line (O) at Christmas
Old time wood gondola (HO)
V&T snow flanger. O plans.

BETTER HURRY!

* The publisher reserves the right to substitute older issues in the event that our stock of any issue becomes exhausted.

MANY OF THESE ISSUES IN SHORT SUPPLY

BRIDGES

STEAM

trackwork

maintenence **tinplate**

old time **TROLLEYS**

diesels

SCENERY

LAYOUT DESIGN

narrow gauge

PICTURE IDEAS

conversions

1949 — 12 ISSUES — $3.50

CNJ Highbridge Branch
Trolley Loco: Part 3
Pullman Observation: Part 2
4-4-4 Live steamer (1/2")—Part 1
Quartering drivers an easy way
HO Steam motor car—Schopp

FEBRUARY
Building a 4-4-0—Dance (HO)
B&O 2-10-2 Sta (O)
CNJ Highbridge Branch—Part 2
4-4-4 Live steamer—Part 2
Trolley bus control circuits
Getting started: Barkeley

MARCH
Interurban Official car (O)
O reefer by Lewis Austin
4-4-0 in HO—Part 2
N&W Class J-2 4-8-4—Part 1 (O)
4-4-4 live steamer—Part 3
Scenery, It's Easy—Crosby

APRIL
EMC Passenger Diesel in HO
Getting started—Part 6
Bay Ridge Model RR Club (O).
Official car—Part 2—Hoffman
CNR 4-8-4—Data and S plans
N&W 4-8-4—Part 2

MAY
Here comes the circus
Fully automatic turntable (HO)
Canada Great Western Ry (O)
Official Car—Part 3
N&W 4-8-4—Part 3
4-4-4 Live steamer—Part 4

JUNE
Model RR That Folds Up
Alco 1000 hp switcher (HO)
Mt. Tamalpais & Muir Woods RR
Quartering device for drivers
Pickle car (O)—Bartholomew
Two power wiring circuits

JULY
RR That Folds Up—Part 2
Helium Tank Car—Bartholomew (O)
PRR G5s 4-6-0—HO Plans and data
Remote control pantographs
4-4-4 Live Steamer—Part 7
Weathering model equipment

AUGUST
California models and prototypes
Modern home modeled in plastic (O)
ATSF 4-6-2—Plans and data (HO)
Live steam review
SP Box car; PFE Reefer (HO)
4-4-4 Live steamer—Part 8

SEPTEMBER
Modeling from Photographs
Modern home in plastic—Part 2
Express reefer (O)—Austin
Small frt. house (NYCRR)—HO
CNJ 0-6-0 camelback (O)—Crater
Disappearing apartment railroad

OCTOBER
B&M gondola in O gauge—Austin
Control of model trolley lines
Oakland Antioch & Eastern Ry (Ot)
BLW 1500 hp diesel road switcher (S)
Interlocking towers
Live steamer information

NOVEMBER
Electronic control: J. Nixon
Stanton Central RR—British OO
Gingerbread to age your buildings
Cement Hopper (O)—Bartholomew
Wooden combine in HO—West Shore
Flag stop stations in Indiana

DECEMBER
1892 Union Line box car (HO)
United Electric Railroads (Ot)
4-4-0 camelback—CNJ (O)—Crater
Open end gondola (HO)
Camouflaged operating space
Trains and the Christmas Tree

1948 — 12 ISSUES — $3.50

JANUARY
Standard steel caboose (O)—Austin
Building fronts for scenery
Eastern Mass. semi-convertible (O)
Bill Schopp's Memoirs—Part 2
Electricity—Direct Current
Gallows frame turntable (O)

FEBRUARY
Inspection engine (O) "Star"—Crater
Planning model RRs with 3D
Memoirs By Schopp—Part 3
Reading 4-2-2, BLW 1892 (O)
Transfer Table (1/8")
Soldering made Easy—Austin

MARCH
Trolley street sprinkler (O)
CNJ Inspection engine—Part 2
Bill Schopp's Memoirs—Part 4
Gas Electric (HO)—Carstens
NYNH&H 0360 electric loco (S)
NYNH&H caboose (S)

APRIL
GE 0-4-4-0 Elec. Loco (O)—Austin
Long Island Model Railroad (O)
Getting Started, John Barkeley
Fuel Dealers Yard—Crater
Bunk Car, CNR (O)
Wayside Station (O)—Schopp

MAY
GE 0-4-4-0—Part 2
B & O O gauge layout
Using the watchmaker's lathe
BLW 2000 hp double end diesel (O)
The tools needed for model ring
Vertical twin cylinder steam engine

JUNE
GE 0-4-4-0—Part 3
BLW (CN) 2000 hp diesel—Part 2
Third Rail Shoes (O)—Long Valley
Arched roof mu cars(HO)—Carstens
DC 12 and 24 volt power supply
Basic layout designs and framework

JULY
GE 0-4-4-0—Part 4 (O)
Automatic wyes for street Rys.
Basic electrical principles
New York Ontario & Western Ry.
Streamlined cars (O)—Crater
O gauge pile driver

AUGUST
SP 0-6-0 (HO)—Austin—Part 1
Ice trolley and line car (O)
Streamlined diner and coaches (O)
5 basic trolley poles (O)—LVERY
CNJ 2000 hp BLW diesel (S)
CPR 3 door baggage car (HO)

SEPTEMBER
SP 0-6-0 (HO)—Part 2
Trolley pole bases (part 2)
Train of Tomorrow loco.—HO
Whitcomb diesel in HO—freelanced
Observation car (OO)—Treat
CV snow flanger (HO)

OCTOBER
SP 0-6-0 (HO)—Part 3
Bellows Falls, Vermont (Protostory)
Train of Tomorrow—cars (HO)
Express cars (O)—Crater
G&D 2 stall engine house—John Allen
Correct freelancing—Bill Hoffman

NOVEMBER
G&D Engine house (HO)—Part 2
SP 0-6-0 (HO)—Part 4
Train of Tomorrow—conclusion
Turntable for HO—Bill Schopp
Electric Trolley Locomotive (O)
TT water tower—Healion

DECEMBER
4 comp. Pullman Observation (O)
Elec. Loco. (O) Part 2
NYS&W Little Ferry Terminal
G&D Engine House—Part 3
BLW 3000 hp diesel for SAL (HO)
Gas electric (HO)—Ray Staples

Single copy price any issue, 50c each

MAIL TODAY

The above listings briefly describe some of the featured material in each issue. In addition, there is a wide range of constructive data, plans and building articles in every copy. All magazines are complete and contain fresh projects and building ideas that can be put to use on your present pike. Here's your chance to fill the gaps in your own model railroad library But rush! Supplies on many issues are low and cannot be replaced. Orders will be filled on a first come, first served basis! Use the coupon today.

RAILROAD MODEL CRAFTSMAN
ROUTE 17
RAMSEY, NEW JERSEY

BACK ISSUE DEPT.
ROOM 57

Please rush the complete sets of back issues as checked below. I enclose a check or money order for $..... in payment. (Please do not enclose cash).

- ☐ 1954 — 12 issues
- ☐ 1953 — 12 issues
- ☐ 1952 — 12 issues
- ☐ 1951 — 12 issues
- ☐ 1950 — 12 issues
- ☐ 1949 — 12 issues
- ☐ 1948 — 12 issues
- ☐ 1947 — 12 issues

NAME .....

STREET .....

CITY ..... ZONE ..... STATE .....

(Please print or type. If you do not wish to clip magazine, enclose your remittance with letter).

SUPER DETAILERS
Selley has the stuff.
"SUPERMARKET" CATALOG
O & HO, 850 illustrations
Send a dime today!
SELLEY, Inc. 744 Clay St. Dept. 205 Winter Park, Fla.

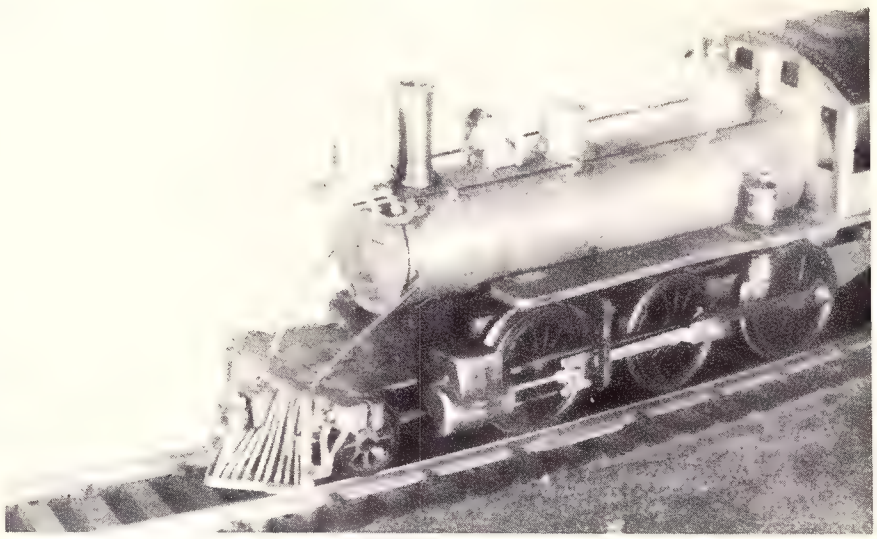
HO REPAIRS—ASSEMBLY—LAYOUT DESIGNS
NMRA Regional Meet—Trenton, May 5 & 6. HO-ers welcome Fri. eve., Sat. A.M. or Sun. P.M. Bring good trading material and/or a bulging wallet. Usually a selection of better quality built up HO engines.
WILLIAM M. SCHOPP
445 S. Logan Ave. Trenton, 9, N. J.
Phone OWen 5-2202
SCHRADER GG-1 kit in HO: I will have this brass bodied beauty as soon as available; send separate stamped addressed envelope for notification as soon as first kits or literature are available.

FOR OLD-TIME HO MODELING FUN!
CENTRAL VALLEY
KITS and TRUCKS
CENTRAL VALLEY
13050 SATICOY ST., NORTH HOLLYWOOD, CALIF.

IT MEANS BETTER HOBBY SERVICE FOR YOU

MODEL & HOBBY INDUSTRY MAGAZINE 1956 APPROVED DEALER

Dealer! for a free sample copy write to:
CRAFT, MODEL and HOBBY INDUSTRY
30 East 29th Street
New York 16, N. Y.



Mantua's Mogul takes on a customized appearance by the simple addition of special cast fittings. Most dealers have good selection.

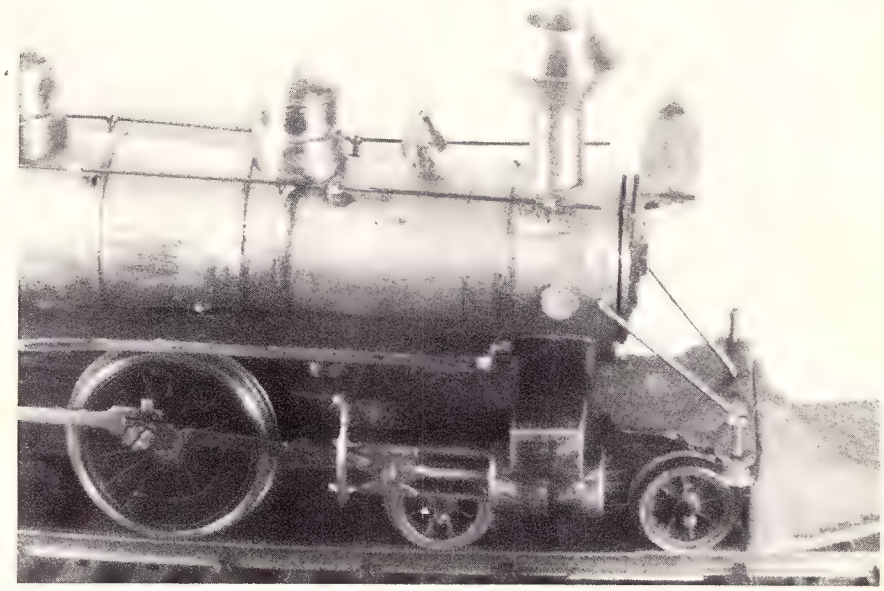
ADDING DETAIL

THE simple addition of fittings to your kit built locomotives will do a great deal to give them a more custom built and individualized look. The Belle and the Mogul are two examples of how standard kit built locos have been lifted out of the ordinary and into the custom built class, at least insofar as general appearance is concerned.

The Belle of the Eighties has been given a big lift by the addition of Kemtron spoked pilot truck wheels, typical of the period. The pilot has also been replaced with a Budd lost wax Belle pilot having individual spokes. That builder's plate on the smokebox side is formed from a brass 2-56 screw tapped into the boiler, after which the head is ground down flat. Care to inscribe it?

The Mogul has also received spoked pilot wheels and a Budd Santa Fe pilot. Kemtron old time fittings have replaced the original headlight, bell, and bell bracket. If desired, a GOW bulb could be placed in the hollow headlight. The Mogul could also have been modernized by adding another dome, heavier headlight, extra piping, and perhaps a switching type pilot. Try adding some details and see if you can't come up with a different looking engine.

Mantua Belle has been equipped with spoked pony wheels, new see-through pilot, and even builder plate. Engine now is individualized.



TROUBLE SHOOTING

Spring Fatigue

▶ After several years of inactivity in the model r.r. field, the writer recently got out his old HO equipment and started to refurbish it. However, try as he will, he cannot get some of the "old" motors (actually not over five years old) to work with their desired pep. A voltmeter shows over 12v. coming from the power pack, and an ammeter shows a drain of almost two amps from the motors. This is not all motors, but some of them only.—Robert Gazina, St. Paul, Minn.

ANSWER: From the technical nature of the rest of your letter, I would deduce that you have had sense enough to oil the motors and mechanisms and to let the motors run free, off the mechanism, for a while, since sometimes minute quantities of rust and/or gum form on the shafts and axles. (Occasionally this has to be polished off but usually it will "run" off). I would check to see if the motors run better and the ammeter draw is reduced to less than 1 amp. if you gently press the brushes in a little bit tighter with your fingers—before the motor has gotten too hot. If this is true, and it probably is, try flexing the brush springs out as for as possible with your fingers, then re-engaging them. However, when a spring has been left in one position, in compression in this case, fatigue sets in in the metal and the spring loses some of its zip. The only remedy is to replace the brush springs which usually means the whole brush holder, a matter of perhaps 35c. at the most.

The same fatigue occurs when springs are left in tension for long periods, as on model trolleys that are stored in a barn for months on end, or where the front trolley pole is never used—until that one time, when it fails to spring up. The remedy of course is new springs, but the prevention is to let the poles up during long periods of storage, off the wire if necessary to keep the car from moving. You'll find this practice recommended in some of the old prototype traction magazines.

Penn-Line Troubles

▶ My Penn-Line consolidation performs perfectly when the boiler is not in place, but runs slowly, if at all once the boiler is crewed down, heating up, smoking, and sparking a lot at the brushes. I have lined the inside of the firebox with Scotch tape, but there is no improvement. —Ike Magna, Los Angeles, Calif.

ANSWER: This trouble is occasionally found in these engines since the wire from the tender is soldered directly to the top of the left-hand brush of the motor. If it comes off and is resoldered poorly, the resulting lump of solder will bear against the inside of the firebox and not short out but take some or even all of the tension off that brush. The result is poor brush-ommutator contact, as indicated by the arcing you mention. A similar trouble on another one of these engines we were called on to fix was caused by the wire being resoldered to the top of the brush in such a way as to also solder the brush spring too. This kept the brush from getting good pressure from the spring even when the boiler was not in place. The remedy, which Penn-Line should incorporate in its manufacturing process and directions, is to solder the wire from the tender

FLEMINGSBURG & NORTHERN RAILCAR

by Thomas Leaming

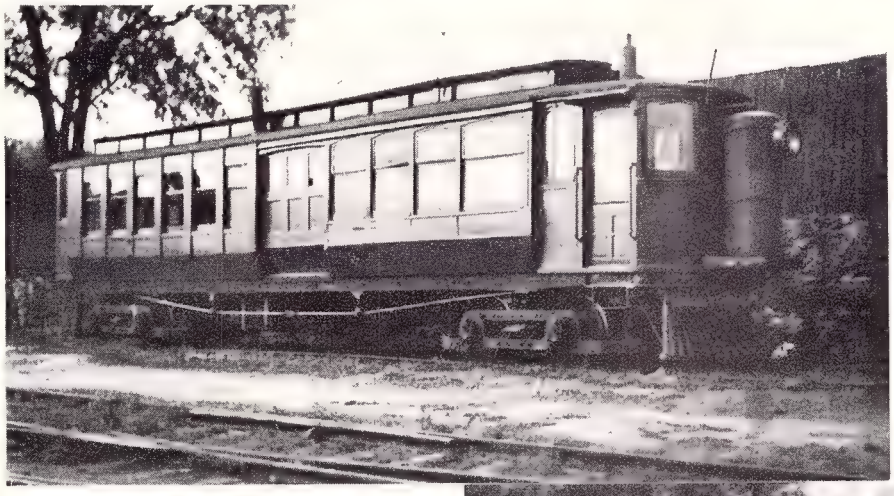
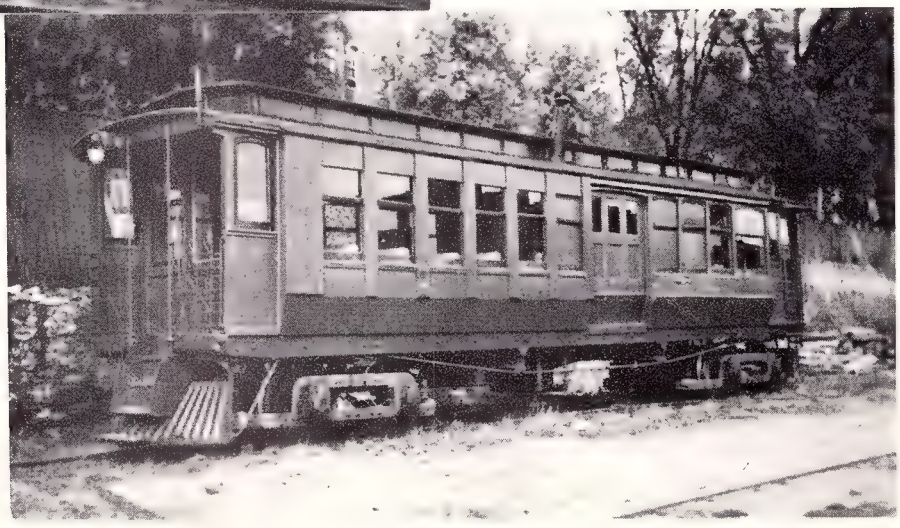


photo by C. L. Collom



Here's a gasoline powered railcar which once ran on the Flemingsburg & Northern Railroad in Kentucky, obviously rebuilt from a deck roofed trolley. The exhaust pipe sticking up indicates engine and generator were on rear platform, with conveniently located fuel tank slung out on the stern, with headlight lashed to it. Entrance steps were on platform on opposite end. No plans are available but it would be rather easy to revamp a PSM Brill car into a unit similar to this. Other roads had similar converted trolleys in service, all of which were strictly one of a kind affairs, turned out according to the whims and funds available to the master mechanic.

HOW QUICKLY "RAILROAD MODEL CRAFTSMAN" CAN BECOME A VALUED PART OF YOUR PIKE!

Assure Yourself A Full Year of Reading & Building Pleasure

And Save Money in the Bargain!

A subscription to Railroad Model Craftsman is your ticket to a full year of reading and building pleasure. Each issue is packed with the latest model building hints, ideas to gladden the heart of any model railroad enthusiast. You'll find a wide assortment of do-it-yourself projects—locomotives, cars, buildings, scenic development—plus many, many other timely hints on the construction and operation of your model railroad. By subscribing for one year you'll get more than 800 fact-filled pages of model railroad know-how. Make sure you send your order today.

RAILROAD MODEL CRAFTSMAN
Ramsey 9, New Jersey

If you don't want to mutilate your magazine, send your order and remittance in a letter.

Here's my order for a subscription to Railroad Model Crafesman. Enclosed is ☐ $12.00 for three years; ☐ $9.00 for two years; ☐ $5.00 for one year. This is a new subscription ☐; this is a renewal ☐. Send copies of the magazine each month as it is issued to:

Name . . . . . .

Address . . . . . .

City and State . . . . . .

Please add 50c per year if outside the U.S.A. or Canada

NEW-TYPE PERMANENT BINDER for Railroad Model Craftsman

Single binder $3.50 each
Two or more $3.00 each
Postage prepaid in U. S.
Foreign Countries extra.

- **Do your own binding in minutes**
- **Easy to follow instructions**
- **Hacksaw and handy holder included with first purchase**
- **Opens as flat as a bound book**
- **Durable, maroon imitation leather cover**
- **Stamped with name, year, volume number**
- **Monthly issues may be removed if desired**
- **Holds 12 issues**

ORDER TODAY—SATISFACTION GUARANTEED

Suckert Loose-Leaf Cover Co.
234 W. Larned St.
Detroit 26, Michigan

Enclosed find $ . . . . . Please send me . . . . . binders for RAILROAD MODEL CRAFTSMAN for volume . . . . . I understand if they are not satisfactory, I can return them for refund within ten days.

Name . . . . . .

Address . . . . . .

City . . . . . **Zone** . . . . . **State** . . . . . .

to the inner tip of the brush spring instead of directly to the brush (possibly a carry-over from an earlier springing arrangement)

Kadee Insulation

▶ Is there any easy way to insulate Kadee couplers when mounting them on a tender? I have been screwing them to a sheet of fibre which is in turn screwed to the tender, but that is a lot of work, especially since a friend tells me that the job is "easy as pie."—Phil Higgins, Boston, Mass.

ANSWER: Instead of the usual metal Kadee coupler pocket, get a Varney plastic draft gear set at 15c. which will be good for two couplers. You'll have some parts left over and there will be some extra expense of course.

A.F. Hudson

▶ I have been given an American Flyer HO gauge Hudson type engine which I understand was made before the war. The person who gave it to me tells me that magnets are available to convert this to D.C. operation with permag reverse, but I have been unable to find any. Could you suggest any other way to convert to D.C.? Also, it has one wheel loose on the axle and the pilot is missing? Can these be obtained?—George Manson, San Francisco, Calif.

ANSWER: Before the war was a long time ago and all of these conversion magnets once sold by Pittman have disappeared from channels and your only hope in getting one would be to pick up a junked Hudson which had one in. It would be possible to convert to D.C. by mounting a rectifier in the boiler or in the tender, but inasmuch as it has the other infirmities, why not retire it to a sidetrack? Or wait for another gift or lucky purchase of a similar engine from which you can cannibalize up one good engine. The pilots always broke first when people dropped the engines and the wheels had bakelite centers which broke easily. The superstructure and cylinders, by the way, fit fairly well on a Mantua mikado mechanism . . . should you want to utilize them.

Sluggish Motor

▶ Nobody has asked this question yet and chances are we couldn't diagnose the trouble from a distance. Just recently we had a sluggish motor to try to fix. It was one that had not been used for several years and after replacing the brush springs it still wouldn't rev up well. We were about to try an experimental armature replacement when we discovered that the little bronze bearing at the front of the shaft was frozen or rusted to the shaft. We freed this, polished the shaft with crocus cloth, oiled, and all was well. It seems that when not oiled, motor shafts tend to collect minute quantities of rust which make for poor running when they are taken out of storage.

Tunnels and Wires

▶ Please tell me how overhead trolley wires and telegraph wires go when they come to a tunnel. Also, would it be o.k. to have a timber tunnel portal on a trolley line if it once were used by a steam railroad?—Fred Heinrich, Wildwood, N. J.

ANSWER: There sure aren't any railroad tunnels near Wildwood-by-the-Sea and of a certainty no trolley tunnels nearer than Philadelphia. Telegraph wires running along a railroad will, if possible, run up and over the top of the hill where the tracks go through a tunnel. When this is not pos-

sible they will run through the tunnel, either in a vertical tier along one side or in a conduit. Trolley wires duck down from their standard 20 or 22 foot height above rail-head and run just under the roof of the tunnel which of course must allow some room for the pole to spring. Common model practice is to replace trolley wire in a tunnel with a sort of inverted shallow square U or V shaped trough so that trolley positively cannot come off wire —'cause there aren't any wires!

Casey Jones on the Ho-Pac

▶ As motive power for the Ho-Pac Lines written up in the December 1955 RMC I bought a Varney Casey Jones kit and assembled same. However, I find (a) it will not take the inner 15" radius curves, and (b) the cowcatcher hits the switch stands at certain points. Will you please advise if this can be cured and how?—Jas. Thompson, Laconia, N. H.

ANSWER: Since publicizing the Ho-Pac 4 x 6 ft. Snap Track layout, we have an opportunity to try many locomotives and cars out on it and find that some will take all curves, some will not. Of the latter, some *can* be fixed to take the curves of which the Casey Jones fortunately is one.

You must first of all remove the flanges from the center, geared, drivers. If you or a friend has a lathe, this is a fairly simple job. By hand you can file the flange off as neatly as possible, then re-insert drivers in the mechanism, turn it upside down, turn power on, and file the wheel tread smooth. Instead of the filing to begin with, you can use a jewelers' saw and saw the flanges off, then "turn" smooth against a file with the engine's own motor. You will also find that the draw-bar between engine and tender is too short and lets tender hit back of cab, flipping itself off the rails. The solution here is a longer drawbar which you can make from any fibre or plastic of suitable thickness.

To install a headlight, drill right on through from the front with a No. 30 or other drill a little larger than ⅛". Slip a GOW (grain of wheat) bulb in the hole, running the leads right back and soldering them to the brushes. We have come to favor the 18 volt GOW lamps over the customary 12 v. ones since operating at less than rated voltage they last a lot longer.

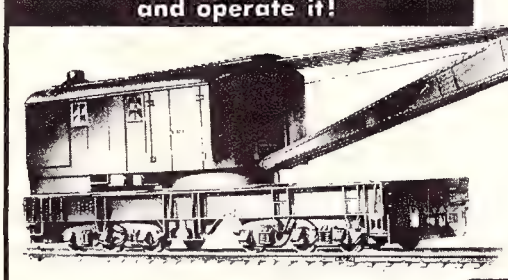
Switch Indications

▶ Using standard commercial switches I have always been able to wire them up so that dwarf signal lights would change with the switch, showing which direction it was set for. Recently I have installed several Atlas Snap-Switches and find that my circuit no longer works. Will you please tell me what I can do?—D. O. Garrison, Cincinnatti, O.

ANSWER: Replace the regular Atlas switch control levers with Walthers E-201 toggle keys which you can get from your dealer or directly from Walthers for $1.50 each. Perhaps your dealer would allow you a trade-in on the Atlas levers. The wiring diagram is included with the keys, which are very useful.

The "trouble" you met is caused by the fact that the "scale" switches you were using also act as electrical switches, but the Snap Switches, being insulated, do not. Also, if they are still available, you could utilize the Pioneer "Best Friend" controllers for the same job.

Build this 200 ton WRECK CRANE and operate it!



HO $8.50

Note These Features

- 1 pc. die cast base, cab and boom.
- 1 pc. beautifully detailed hooks.
- Sprung, 6 wheel buckeye trucks.
- Individual pulleys. All parts in black finish and fully operating.
- Cranks for lowering booms and hooks.

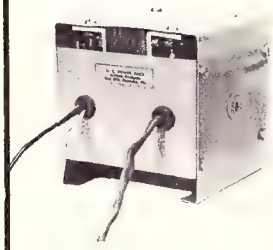
GET THESE ATHEARN KITS FOR YOUR PIKE

☐ BOX CARS ☐ AUTO CARS
☐ REEFERS ☐ FLAT CARS

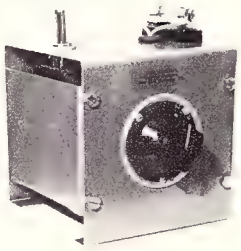
IRVIN R. Athearn
11929 S. WESTERN AVENUE
LOS ANGELES 47, CALIFORNIA

Keep abreast of the times; get the latest building ideas, hints and projects by subscribing to Railroad Model Craftsman. You'll enjoy every issue.

DC POWER AT BARGAIN RATES



12 VOLTS, 2½ AMPS CONT.
16 AND 32 VOLTS AC ALL
— AT SAME TIME —
OPERATES 3 HO LOCOS SIMULTANEOUSLY —
UNCONDITIONALLY GUARANTEED
POWER PACK ..... $6.95 P.P.
CAB CONTROL
30-MIN. KIT ..... $4.95 P.P.



BOTH ITEMS MAIL ONLY

POWER PACK
READY TO PLUG-IN
CONTAINS HEAVY-DUTY TRANSFORMER
FULL-WAVE RECTIFIER
PLUG-IN CORD

ADDEM PRODUCTS
P. O. BOX
DUNEDIN, FLA.

CAB CONTROL
KIT CONTAINS HOUSING
HUSKY RHEOSTAT & KNOB
DIAL-ON-OFF REVERSING
SWITCH-FUSE BLOCK

A Few INTERNATIONAL Specialties!

The BRIGHTEST NAMES in MINIATURE LIGHTING

NEW—MINI MAGS
Only the size of a match head, yet these have a magnifying head blown into the glass-giving it nearly 200% more brilliancy — and long spot effect—ideal for head or tail lights—& signals—comes packaged in 6 — 2 Red — 2 Green & 2 Clear.
6 for $1.00

The Regular TEENY-WEENY MINIS
Our regular 3mm—all purpose bulbs—either in Screw base or with pig tail wires—in Red-Green-Amber-Opal or Clear (all inside colors, not painted).
3.5V—6V—12V—15V—**15c ea.**
24V—**6 for $1.00**
Sockets for screw base—**3 for 25c**

The FLUORETTES—NEW
Another International innovation—this miniature fluorescent type lamp—1½" long & 3mm in circumference—will enable you to light the entire interiors of HO or O Gauge Cars—buildings, etc. with one lamp. They are of 12-15V capacity—and come in packages of 3—2 regular Fluorette whites & 1 daylight.
Package of 3—**$1.25**
Extra Bulbs — 40c each
Special Holders — 10c each

Send 25c for latest complete catalog and get a FREE pair of "KUPEEZE"

See your dealer or order direct. Mininum order $1.00.

INTERNATIONAL MODELS, INC.
33 Union Square, West, New York 3, New York

Narrow Gauge junction

Conducted by Dick Andrews

MOTORS mounted in the tender of a loco have often provided the answer to the problem of "getting a motor into" some of the smaller steam kettles — standard or narrow gauge. Very often the smallest available motors have a hump, brush rigging, or bearing that just doesn't fit within a short cab or small diameter boiler. And of course, if your motor is in the tender, you can load the little kettle solid with lead for extra tractive effort.

And then comes an unwelcome discovery. The tender itself isn't very heavy, and when the motor kicks over and tries to turn the drive shaft hookup through to the engine—the torque lifts the tender up on one side in an embarrassing resemblance to the canine pattern. This has been a hard one to lick.

But the other day, Gene Shear—who served as NMRA Engineering chairman during the development of the NMRA coupler, and who is an ardent HOn3er—sent a note on one of those simple little "gimmicks" that make you wonder why you never thought of it. Writes Gene:—

"For tender drives in rrow gauge, I have long advocated the articulated tender hitch whereby the tender is pivoted behind the loco, the front trucks of the tender being allowed to sway similar to the front pilot trucks of a locomotive. The hinge should allow freedom for the tender to "jackknife" with the loco and also to hinge, but not to "barrel roll." This barrel roll action is caused by motor torque and I have had no trouble on my 2-8-0 since using this method. See drawings.) Try it on the next tender drive loco you build."

As the drawings show, a small tube is soldered to the rear sheet of the loco, on the center line. A similar tube is soldered to the front end sill of the tender, but is off to one side, and on a line a little higher than the top of the tube on the loco. A length of rod does the rest, bent as shown, so that it passes through both tubes. A twist at the horizontal end keeps it from working out of the tender tube.

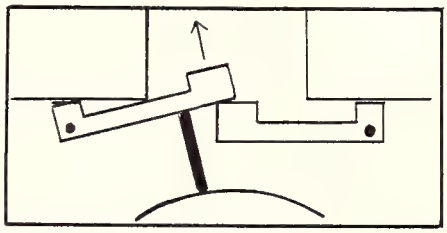
Thus, as Gene says, the rig provides full articulation except that it prevents any possibility for the tender to twist up out of lateral alignment with the loco.

A Coupler

Illustrated here is a simple adaptation of a solid-head dummy automatic coupler that I have used for some time in On2 model railroading. Since every man has his own approach to what he wants, this item might fill some needs in the field. It is simply a solid head coupler that lifts by being pivoted horizontally and thus the whole car does not have to be lifted in order to couple it with another. Note that metal is removed from the shank so as to permit the movement of one coupler up without requiring a slot in the car end to accommodate it.

I have never attempted any sort of remote control coupling with this coupler, chiefly because it does not interest me so much. Prototype coupling can often involve some setting of the knuckle, and I get a kick out of handling the coupling job rather than doing it via push button.

A certain degree of remote control uncoupling is possible with this coupler, for its one working action is of the simplest—it just kicks up. And if the coupler is of a base metal, it has enough weight to flip up with a good smart action if fitted with a dogleg to contact a fixed ramp.



Horizontal mounting of knuckle coupler provides a means of coupling or uncoupling without lifting cars from track. Knuckles must be free fitting.

This happens most readily if the cars are pushed across the ramp at some speed, or the loco with a car. In fact, it is perhaps the single best coupler for a flying switch! Then you'd need this rig only on the rear coupler of the loco—flip!—and away!

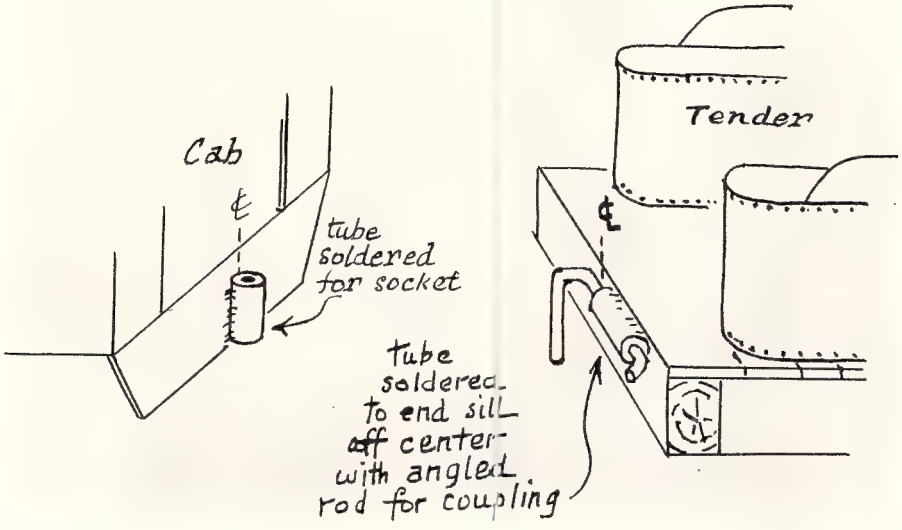
Note the little tab on the end of the shank which contacts the car floor and keeps the coupler from drooping. A simple deal, but to tell the truth, I have never felt the need for anything more elaborate as I have always carried out all my switching moves where I could reach the models very easily. If your dummies fit together rather tightly, a little metal removed from the inside of the knuckle will tend to free them.

Sunset on the EBT

One of the oldest and best-known narrow gauge railroads in the east, the East Broad Top RR, out of Mt. Union, Pennsylvania (on the P.R.R.) will doubtless have ceased operations by the time this is published. Even so, it is entirely possible that a visit to the EBT would give you a good look at the set-up before it is scrapped and hauled away. The Mt. Union yard includes dualgauge track and the coal screening plant, while the shops, roundhouse and chief yard of the road are to be found eighteen miles up the line at Orbisonia. The mines served by the EBT are at Robertsdale, a good deal further up the mountain. Beyond Orbisonia for many miles, the highway crosses and recrosses the roadbed. If you don't put off your trip too long, you may find track still in, and at Orbisonia is the finest array of two-way and three-way stub turnouts to be found this side of limbo!

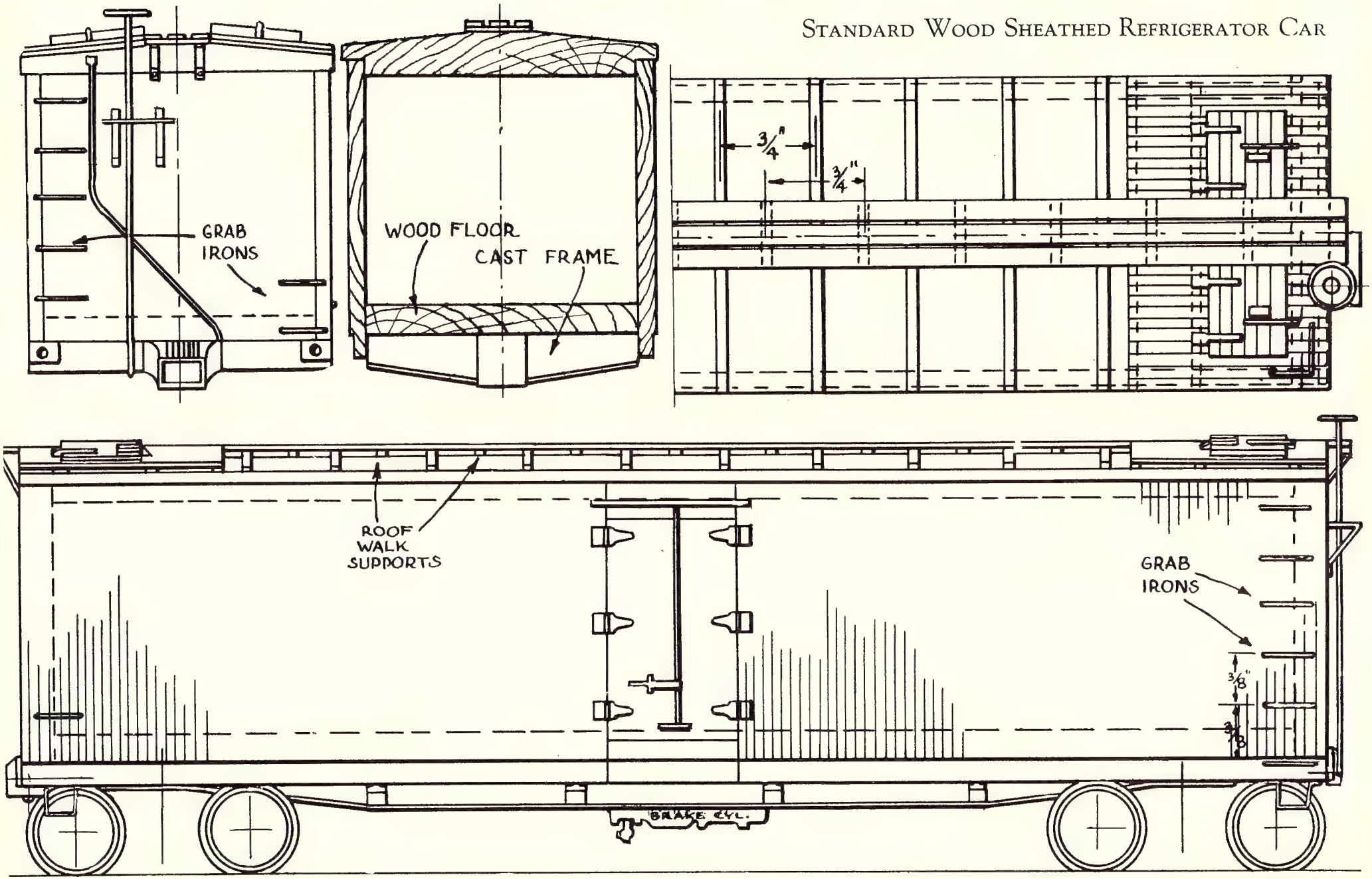
A unique feature of narrow gauge is the fact that you can add a third rail between the two rails of your HO tracks—gauged 10.5 mm. from one of the HO running rails—and run your HOn on the same track! This has often been done on the prototype roads. Thus the HOn line can come winding down out of the hills and simply join a main line HO track for the run into the main station and terminal! This track feature is generally called "dual gauge"

Tender driven locomotives, whether On2, HOn3, or standard HO, often cause trouble because of motor torque which has tendency to lift tender off track on one side. To lick this, try articulated tender hitch illustrated, requiring 2 tubes soldered to tender and loco, with angled coupling rod.



FULL SIZE O GAUGE

Standard Wood Sheathed Refrigerator Car



S AND HO
AMERICAN FLYER HEADQUARTERS
All standard lines in stock. Send stamped envelope for Bargain list. State gauge.
DELAWARE VALLEY HOBBY SHOPS
SOUTHAMPTON 8, PA.

BOOK MANUSCRIPTS CONSIDERED
by cooperative publisher who offers authors early publication, higher royalty, national distribution, and beautifully designed books. All subjects welcomed. Write, or send your MS directly.
GREENWICH BOOK PUBLISHERS, Inc.
Attn.: Mr. Yates 489 Fifth Ave., N.Y.C.

MODEL BUILDERS SUPPLIES
LAYOUT BLUE — Fast dry brush-cap 50c
CUTTING COMPOUND — for better threads—longer tool life .....50c—$1.00
See your local hobby or hardware dealer or order direct. (Shipped P.P. Prepaid.) .....
ROSSMOYNE MODEL PRODUCTS
P. O. Box 1035 Rossmoyne, Ohio

OK Streamliners.....
The latest in HO Model Railroading: Car Kits, Assembled Cars, Train Sets and Accessories
At Hobby Shops, or Write:
HERKIMER TOOL & MODEL WORKS, INC.
288 Harter Street Herkimer, N. Y.

SAVE CLOSEOUTS SAVE
Lindsay Switch Motors .....Usually $2.95 only 2.40
Lindsay Mini Motors .....Usually $1.95 only 1.60
Plus 5c per motor for postage and packing
Bargain Flyer 5c (No Stamps)
BOB'S HOBBY SHOP
54 Sycamore Street
BElmont 79, Mass.
IVanhoe 4-6588 Call After 3:00 P.M. Only

CHAMP DECALS
Largest, Finest Selection of Authentic R. R. Lettering Sets.
Combining HO-O gauge Catalog, 25c pp.
S gauge Catalog, 25c pp.
CHAMPION DECAL COMPANY
1802 E. Burnside St. Portland 14, Ore.

SALE 25% OFF
on HO Reddi-bilts
Custom Built Engines
from regular Commercial Kits
Send for New Price List
Custom-Craft Co. Waymart, Pa.

GIANT 88 PAGE CATALOG
For O Gauge Model Railroaders
Combined Scale and Tinplate 75c
Credit coupon in each catalog good for 75c with first purchase of $5.00
Greatest Variety in O Gauge
Steam Locos, Diesels, Cars and Parts Galore
ALL-NATION HOBBY SHOP
182 N. LaSalle St., Dept. RMC Chicago 1, Ill.

TEST TRACK REVIEWS

Manufacturers are invited to submit new and revised products to the Test Track, Railroad Model Craftsman, Ramsey, N. . for testing and review.

HO Mail Pouch Tobacco Barn

The barn described here is one of the simplest structures we've assembled in some time. The finished building is colorful and suitable for use on any HO or other small gauge model layout. The completed structure measures about 30 scale feet wide, 37 feet deep, and twenty feet high.

The walls and roofs are die cut from embossed, pre-painted matt board. Walls are grey in color, the upper roof yellow and the main roof black with yellow Mail Pouch lettering. The side walls are given rigidity through use of specially milled wood shapes placed in the corners. The sides are cemented to these wood shapes. Finishing details are fashioned from thin wood strip supplied with the kit. There is even a diminutive cast metal horseshoe which should be cemented in place over the barn door. As the saying goes, cement in position with two ends facing up so "luck" doesn't run out.

All parts fit together well but the modeler will come up with one problem until existing instruction sheets are used up. The barn kit was originally offered by Argy who supplied individual strips for the side walls. The plans and instructions make reference to such sides, whereas the new Suydam kits have the diecut, embossed matt board sides. The new kits can be assembled in much less time. Modelers not having space for a complete farm should place the barn near the edge of the layout or at some place on the layout where it could be said that the rest of the farm was just over the hill. Mfd. by E. Suydam & Co., Duarte, California Kit No. 87, price $1.95. At most dealers.

O Gauge Dummy AAR Nylon Couplers

Well, it has happened. Plastics have come to scale O gauge model railroading and after inspecting the first item so manufactured, we can't say that we're sorry.

Appearance-wise, the couplers are identical to the regular A-N metal dummy coupler. They are molded in black nylon and require no painting. What little flash is present is quickly flicked away with a modeler's knife.

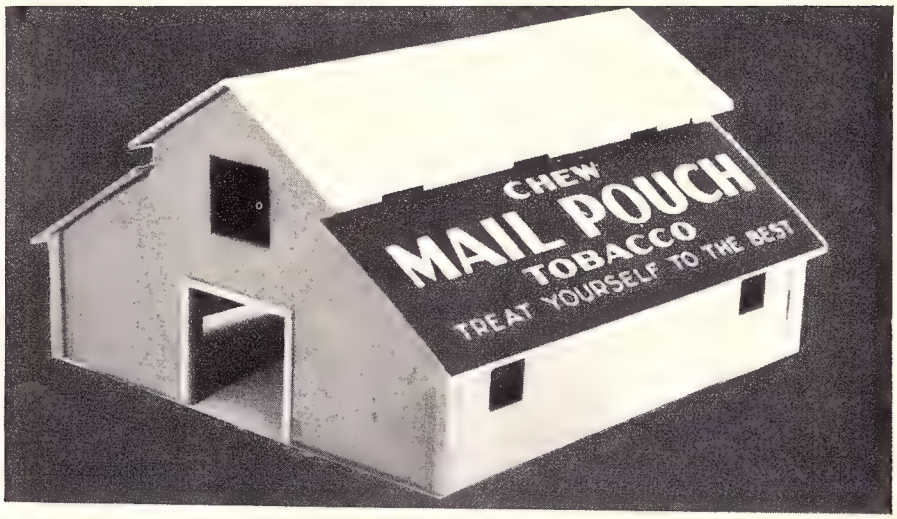
The coupler shank is about one inch long and has two holes molded in, eliminating any need for drilling. We tried the coupler with couplers made by North Jersey, Monarch, and Athearn. They fit perfectly.

We also gave the new coupler a workout to see if she'd stand the strain of O gauge operation. The nylon coupler will bend under impact enough to take the shock of collision where a standard zamac coupler would crack a knuckle.

Use of a nylon coupler eliminates two rail insulation problems which have been bothering O gauge modelers for some time. The larger size of the O gauge piece, incidently, gives it more rigidity than a comparative coupler in HO would have. Mfd. by All-Nation Hobby Shop, 184 North LaSalle St., Chicago 1, Ill. Mfr. No. 1591, 35c pair, or special 12 pr. package for $3.60.

HO Snap-Track Rerailer

A new one piece rerailer for HO gauge is exactly the same size as any standard straight piece of Snap Track. The rerailing device and ties are molded in one piece in black plastic.



As a car is dropped on the rails and then pushed through the rerailer, the wheels of the trucks are forced to follow a flange which guides them onto the rails, regardless of which way the wheels may be turned.

The rerailing device has been designed to resemble an asphalt grade crossing. When the scenery is carried out so that a road leads into the rerailer, the rerailing piece blends into the scenery. When several rerailers are spotted at varying points throughout the layout, especially in far corners, any derailment will automatically rectify itself since derailments on two rail track do not normally cause short circuits. The train with one or more derailed cars can usually make it to the first rerailer.

The pre-production sample we tested worked fine with one slight difficulty that may possibly be rectified. The center portion of the rerailer is about 1/64" above track level. Locomotives having very low pilots, as well as any cars having coupler pins hanging too low, will rub against the center raised section. This could conceivably hang up a locomotive, uncouple cars, or cause lights to flicker in passenger cars. What actually happened in test was nothing more than the pins or low truck sides rubbing against the high parts of the derailer with no detrimental effects to either train or track or operation. There should be at least several of these on every HO layout. Mfd by Atlas Tool Co., Hillside, N. J., price 60c. At your dealer.

Electrical Handbook for Model RRers

The "Electrical Handbook For Model Railroads," by Paul Mallory, is the latest in a series of model railroading books by Simmons-Boardman. It attempts to cover one of the most mysterious and most important aspects of model railroading; the electrical hookups and knowhow required to make your model railroad run efficiently.

To accomplish this, the book has been divided into 21 chapters ranging from basic electricity to radio and television interference. For the average model rail, the first two chapters will be found to be largely review material. Similarly, few model rails bother with the more technical data presented in the later chapters. It is in the chapters on motors, common rail, track sections, reversing loops, wiring, power supplies relays track circuits, and switch machine control that most readers will be interested and find useful.

Also covered are cab controls, signals, electrified railroads, telephone, trouble shooting, and locomotive controls. An appendix gives data on wires, schematic diagrams, lamp and registor data, and an all important index.

The material in the book is good. When we first heard that Paul Mallory was doing this book we wondered if he might not, as an electrical engineer, go off the deep end and make his book unintelligible to the layman. We think he did a good job although by its very nature, the book must be read as a text book, not as a novel.

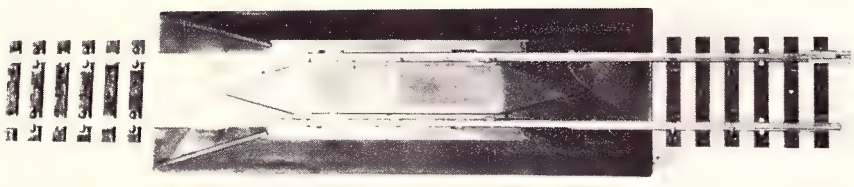
The material in the book is broken down into numbered paragraphs, making it easy to find quoted references elsewhere. Some of the photographs of actual model installations show little other than a maze of wires but they do serve to give an idea of how things are done. Well done are the many line drawings used to illustrate different principles.

If you know nothing about wiring and have some wiring to do, or if you want to go into the deeper aspects of model railroad electrical problems, this book will furnish you with both basic and advanced information. Published by Simmons-Boardman Books, 30 Church St., New York 7, N. Y. Price $4.95. 260 pages, hard cover.

●

▶While railroads prefer to run as many cars as possible in a freight train, occasionally they will run a one or two car train to make a special delivery to a shipper. Hazardous or oversized cargoes may also be moved in special short trains.

●



☆ Tru-Scale 'mighty-mite' SWITCH MOTOR ☆

Lowest Current draw with . . . LIGHTNING A-C-T-I-O-N!

FULL POWERED . . . yet so tiny it can be tabletop mounted on 2" HO centers (either right or left side of track). So LOW . . . that it gives ample clearance for all types of equipment. Has amazing prototype appearance. Concealed mounting also easily accomplished. Maximum efficiency has been engineered into this compact switch motor, which is completely assembled, with polarity contacts and cover. Draws only 1 amp. momentary. Factory Tested and Fully Guaranteed.

HO REMOTE CONTROL "Hi-Speed" MOUNTED SWITCH. Fully wired, with binding posts . . . READY-to-operate. Made in 4's and 6's, R or L hand. Price $5.95.

Write for Free Illustrated Folder.

SYMBOL OF AUTHENTICITY

Tru-Scale Models

SAN DIMAS, CALIFORNIA

69¢

Railroad Photo Album

RAILROAD PHOTO ALBUMS

Photograph-like reproductions of your favorite steam locomotives; a comprehensive photo collection of two distinct locomotive types.

● **Many rare engines included**

These are the finest photo books ever offered to the serious railroad modeler. Large, brilliant reproductions enable you to add elaborate, accurate detail to your favorite loco and give you a thorough knowledge of a particular locomotive type. An elaborate printing process on a specially treated paper gives you photo-like reproduction of your favorite locos, photos long sought by both rail fan and *scale* enthusiast. Railroad Photo Albums are available for two distinct locos (each book illustrates more than forty different engines), the 2-6-0 Mogul and the 0-4-0 switcher. Both Albums may be obtained through your local dealer for only 69c each.

If your local dealer cannot supply, order direct from publisher.

RAILROAD PHOTO ALBUMS
Route 19 Ramsey, N. J.

"SWAPPERS COLUMN"

A free trading service open to all readers. Non-commercial items sent are published free and in good faith. RMC can assume no responsibility for differences occurring between reader and advertiser. Make sure that you understand all details of trades before concluding negotiations. Items submitted must be kept short. Addreviate where possible. We cannot repeat ads and we reserve the right to reject those we feel to be objectionable or beyond the scope of this free service. Ads over 50 words in length will be returned. Priority will always be given those not sending in ads moer than once every 3 months. No commercial classified ads accepted. Write for rates of one inch box display ads on opposite page.

FOR SALE: Issues of RMC, T&T, RR, MRR, in good shape. Lists, prices 3c stamp. Arnold B. Joseph, 2512 Tratman Ave., New York 61, N. Y. Apt. D-17.

WANTED: Lionel Catalog 1945 to 1953. Will pay 25c for catalog from 1946 to 1949 and 15c from 1950 to 1953. John A. Sena, South Acton News, South Acton, Mass.

EXCHANGE: passes Middlesex Line. Lynn Heckman, 416 Howard Ave., Middlesex, N. J.

SELL OR TRADE: for HO. Lionel, Erie Diesel set. Twin-unit engine, 4 cars, track, trans. Best offer takes. Gary Cobb, Box 91, Oolitic, Indiana.

SELL OR TRADE: Old Kadee cpls w or wo/dg also Roundhouse same, all new condition. Want Rail Line NMRA cpls or any HO gear. T. S. Noskowicz, 151 Highland, Wood Dale, Ill.

TRADE: A. F. Diesel No. 370 in very good condition for HO steam road loco. Loomis, 607 Grant Ave., Joliet, Ill.

WANTED: Lionel lift bridge No. 213 also No. 152 gate crossing with 153C contactor. Must be in A1 condiiton. Dr. A. Gorfain, 53 S. Broadway, Yonkers 2, N. Y.

FOR SALE OR TRADE: Approx. $150 worth of Modes airplane equip., engines and acc. Want AF S ga. equip., anything. Stamp for list. Harold Allen, 137 E. Waldo, Independence, Missouri.

SELL: "O" gauge locomotives, Lionel No. 763, 2 rail scale wheels, 12 wheel Vanderbilt tender, Hines super-detailed 2-8-2 and tender, All Nation F-3 diesel, kit form in original boxes All Nations 4-8-2 with tender. D. E. Wagner, Box 145, East Alton, Ill.

SWAP: "O" gauge scale Pacific diesel switcher and freight cars. Want Penn Line HO locos. J. Stafford, 45 Park Ave., Monroe, N. Y.

SELL OR TRADE: Two Lionel No. 708 scale switchers. One outside third rail, other two rail. Excellent. Trade new Benrus watch "Sir Stafford", retails $160. For anything I can use in HO, OO or O gauge scale, Perry Mastrangelo, Jr., 740 E. 183rd St., Bronx 58, N. Y.

WANTED: Toy autos for HO pike. Old Tootsie Toys preferred. No plastic. Send description, price. D. K. Gast, 3756 Prestwick Dr., Los Angeles, Calif.

WANTED: Lionel 0-72 RC switches with or without controllers, tinplate and old catalogues. J. A. Horton, 4115 Franci Ave., Cincinnatti 5, Ohio.

WANTED: Marklin Catalogs before 1953, "O" and "HO". Robert F. Gillespie, 1412 S. 58th St., Philadelphia 43, Pa.

FOR SALE: $75 worth equipment of H.P. Products TT gauge. Powered A & B units Santa Fe streamliner w/2 pass. cars, good condition $30. Also 4 pass. cars for above $8. Ronald Greeley, E. 1st St., Burkburnett, Texas.

SWAP: Varney tender comp. detailed with Penn Line trucks for Mantua Belle or Mogul tender. Answer all. Jack L. Creamer, 1013 Harrison Ave., Harrison, Ohio.

WANTED: A.F. HO coach cars No. 135, Lionel No. 2810 crane, No. 2815 tank car, No. 2816 coal car. SELL: Lionel No. 227 0-6-0 switcher, Pennsy A.M.T. freight, 2600 Pullmans. William McShane, 1818 62nd St., Brooklyn 4, N. Y.

SWAP OR SELL: Model "A" Ford parts, special custom race "Whizzer" motor bike for HO equipment. Steam loco kits preferred. Kenneth I. Walton, Jr., RFD 1, West Redding, Conn.

SALE OR TRADE: For HO of equal value, HO soft metal castings, figures and car parts. New, unpainted. Send stamp for list. Allen Gerber, 40 Thrush St., Carpentersville, Ill.

SELL OR SWAP FOR HO: Lionel std. ga. set. Good cond. 400E 4-4-4 loco w/tender. Light, crane, 5 frt. cars, switches. 45° cross., 90° cross. Plenty track, Capt. W. E. Gardner, 1240 Air Transport Sqn., Palm Beach Air Force Base, West Palm Beach, Fla.

FOR SALE OR TRADE FOR "O" GAUGE: New HO kits, structures, rolling stock and equip. Send self addressed stamped envelope for big list. W. H. Eldridge, 1535 Scott Ave., Lamarque, Texas.

EXCHANGE: Small Dealer's foreign stamp stock, $200 Scott's catalog value. Wanted—HO equip. L. Greenfield, 209 Atlantic, McKeesport, Pa.

TRADE: Have $500 HO. 19 locos, 100 cars, Spec. Switches, Weston figs. Trade for S gauge scale or power wood tools. State what you want. I may be slow but I'll answer. E. R. Welborn, 1911 Woodland, Wichita, Kans.

SELL: AF Loco, No. 3110, perfect, $20. Sell 102 back issues MB, MRR, WS, OGM, Des. '53 inclusive, some at irregular dates. F. Rossauer, Box 41, Sullivan Rd., Aurora, Ill.

SALE OR TRADE: Approx. 1300 stamps, two albums, tongs and hinges, etc. Sell or trade for HO in good condition. 3¢ stamp for list. Arling Brinck, Belgrade, Minn.

TRADE: Lionel equipment for HO gauge. If interested write Charles Morgan, 91 Washington Ave., Rensselaer, N. Y.

WANTED: Varney locos, parts, any large locomotives. Condition not important. Best trade offer or will buy. State what you have. All letters answered. Harold Fletcher, 42-64 65th Place, Woodside 77, L. I., N. Y. C.

TRADE: HO, have 30 pr. MMRA couplers, want equal amount Kadee couplers. D. A. Finnegan, 24 Holly Lane RD 2, Watervliet, N. Y.

FOR SALE OR TRADE: AF S gauge track, 1 pr. remote control switches, 1 No. 343 0-8-0 switcher, 1 No. 630 caboose, 1 No. 632 hopper car, 1 No. 625 tank car, all with link couplers, 1 track terminal. Want HO kits and anything in HO line. Joseph Palombi, Jr., 748 W. Court St., Rome, N. Y.

EXCHANGE: HO Varney plastic unassembled kits. In original boxes with instructions. Trade for HO access. A. Halpern, 209 Atlantic, McKeesport, Pa.

TRADE: 0-27 in perfect condition for HO. All letters answered. Dominic W. Chionese, 1461 Hamilton Ave., Trenton, N. J.

TRADE: Have 3—4000 all world stamps for HO equipment. Send your list. Jim Horewill, Greenacres, Washington.

FOR SALE: Strombecker passenger, freight, reefer kits. Also Mantua "Mighty Might" and Roundhouse "goat". For list send stamp. John Tvelia, 107-47 106th St., Ozone Park 17, N. Y.

SALE OR TRADE: For HO, Lionel O elevated layout, scenery, 3 loco's, steam turbine, switches, cars, track, houses, acc. All letters answered. Not sold separately. Leon Tomash, 61-16 163rd St., Flushing 65, N. Y.

FOR SALE: MRR May 1949 through Dec. 1955. Best offer over $30. Also some Marx equipt. Don Pierce, 17 William St., New London, Conn.

SELL OR TRADE: HO western buildings, handmade, wood, oil tanks, and corrals. Sell or trade for HO gauge rolling stock, bridges, etc. W. C. McClure, 915 E. Weatherford, Ft. Worth, Tex.

FOR SALE: Burlington Varney F3 W/globe 4 whl. dr., rubber diaphragm, prototype lettering. Best offer accepted. James R. Tremayne, 2636 W. Devon, Chicago 45, Ill.

FOR SALE: AF equip. No. 5417T set, new, DC loco. 501T set, good, DC loco. 2 AF rc switches. 2 Peare switch kits. 20' Peare steel rail & tie strip. Extra parts. $50. A. W. Gaither, RR 4, Box 170, Cedar Lake, Ind.

WANTED: Green roof top for the American Flyer signal tower No. 597. Leo Baris, 113 Sherman Ave., New York, N. Y.

TRADE: Have Ives Clock Work Trains and complete set miniature wood working tools, for HO engines, cars, what have you. Robert T. Hobson, 210 Firestone Ave., Canton, Ohio.

WANTED: Lionel 027 passenger cars old type before 1950 good condition. Gene McKeever, 3611 Newton St., Denver 11, Colo.

SALE OR TRADE: Hobbytown Alco Road Switcher, new kit $16.95. Walters Alco Switcher, Mantua cplrs. red with gold trim, DC 60 motor, completely blt. up $10.95. Parnell HO Turntable (Pit type) in box $4.95.

SALE OR TRADE: AF Atlantic, 6 freight, 974 operating box, caboose. 2 uncouplers and bumpers, 48 track, 90° crossover. 2 pr. switches, transformer. Trade for HO set of same equipment, or sell for $50. Earl Conco, 709 Villa St., Elgin, Ill.

SALE OR TRADE: $475 Lionel equip. Want HO. Write for list. Warren Culpepper, 119 McRainey Loop, Andalusia, Ala.

SELL OR SWAP FOR HO: Varney dockside with V C kit, 5 Walthers Pug pass. cars, 6 MDC car kits, English Alco "A" metal kit, Walthers Doodlebug kit. Want steam loco's, SW machines, box, hopper cars. R. W. Jennings, 13 Cliff Ave., Scituate, Mass.

SELL OR TRADE: $230 Lionel "O" and "027" equip. Changing to "HO" for space reasons. Swap lists first. F. V. Lehn, 915 North County St., Waukegan, Ill.

TRADE: Have Fleischmann German Pacific and tender in good condition. Trade for American steam. Robert Corson, 32 Prospect Ave., Avenel, N. J.

FOR SALE: Lionel Dies. Swith. and cars 6560-3663-3562-6511-6561-6419-64-64 with track. Comp. Remo. 90° crossover, access. Good condition. June Lawrence, 303 S. Laurel, Stockton, Calif.

WANTED: Lionel 027 or O frt-pass cars with auto couplers. State price, condition. C. J. Simpson, 1911 Ward St., Durham, N. C.

FOR SALE: Lionel No. 2353 SF diesel $30. No. 2343C SF B unit $6.50. No. 3482 OP milk car $6.75. No. 6457 caboose $3.00. No. 3461 OP lumber car $5.00. No. 456 coal ramp $8.50. print letterheads. Douglas Haustein, 94 Winans Ave., Cranford, N. J.

SALE: HO brass locos: Varney Mike $60. Camelback 0-4-0 $20. Power supply $15. Also track and scenery. $138 takes all. All letters answered. J. W. Steadham, 7 Hillside St., Lindale, Ga.

FOR SALE OR TRADE FOR TT: HO—5 engines, 13 frt., 7 pass., 5 sw., track, etc. $220 value for $175. Send stamped envelop for list. James Naff, 209 E. Walnut St., Ashland, Ohio.

SALE OR TRADE: "S" gauge Nord Mike, working condition. Scale parts and used track. Want "S" Tinplate. H. F. Damm, 228 68th St., Niagara Falls, N. Y.

WANTED: HO Varney metal "A" diesel. Prefer kit unpowered or with Lindsay power. Pay cash, or part cash and Parnell HO Turntable in trade (In kit never used). Luther Schell, 103 Fourth St., Shillington, Reading, Pa.

TRADE: Collection valuable maps, some hundred years old. Want Thomas, Lobaugh, Lionel, S gauge; Mantua, Tenshodo, Marklin. Trading basis $3 to $5 a map. J. Morrissey, 1777 South St., Bridgewater, Mass.

SELL: T&T 1940 to present $1 each. Other RR books and magazines. Bob Spencer, 6152½ Hazelhurst Pl., N. Hollywood, Calif.

WANT: Lionel 2W-275 watt transformers, new or used. O gauge steel rail. (Gargraves to match Lionel O three rail). Ricky Hemmett, 448 Granview Ave., M. Jaw, Sask., Canada.

TRADE: No. 1615 Lionel 0-4-0-, No. 6462 gondola, No. 6560 crane car, No. 6119 work caboose, 26 pcs. track, transformer, access., etc. Trade for HO over $30. Carl Lucey, 43 Jackson Pkwy., Holyoke, Mass.

SWAP LIST: Send self addressed envelope. HO & O kits, catalogs, RR Magazines, etc. Howell Day, 300 Vail Ave., Dunellen, N. J.

FOR SALE: HO locos, Bowser Pacific w/tender, Mantua Berkshire, Penn Line Atlantic Altered. A. E. Hutton, 5 Hawthorn Rd., Bridgeport, Pa.

SWAP: Varney Dockside, good cond.; Mantua 4-wheel metal caboose. Want English PRR A-5 (kit preferred). J. Wesner, Box 297, Carnegie Institute of Technology, Pittsburgh 13, Pa.

SALE OR TRADE: $200 Lionel Equipment, good condition. Asking $120 or HO. G. Brown, 17 Franklin Ave., Pitman, N. J.

TRADE: Have Lionel SF diesel, 2 prs. 022 switches, 9 frt. cars, 90 section "O" track. Want HO equip. Richard Smith, 29 Madison Ave., Avenel, N. J.

SALE OR TRADE: AF, 2 loco, frt. & pass. cars, trk, switches, etc. Trade for HO. G. Lewis, 1313 Seabright, Santa Cruz, Calif.

SELL: AF locos 326, 293 315, 312, Hobbyline No. 440, A.F. 650 pack, track, new $32. Lionel engs. cars, back issues RR mags. Stamp for list. Wm. Ramsey, 221 E. Montg. Ave., Hatboro, Pa.

FOR SALE OR TRADE: Lionel Scout loco & tender, box car, caboose, manual rh switch, track. $10 or HO. Day Michael Walters, 6030 Kennedy Ave., Cincinnati 13, Ohio.

SALE OR TRADE: 7 HO MDC metal ore cars w/tr and dummy coup., fair paint job. Want HO Booster any condition. Dave Gould, Jerusalem Rd., Eden, N. Y.

SELL: Mantua Booster, Mantua Sharknose, Penn Line Whitcomb, Mantua streaml. pass. car, Mantua 4 wh. caboose, $28. Richard Frerking, 143-54 Roosevelt Ave., Flushing, N. Y.

SELL OR TRADE: RMC 1954, 55; MRR 1953, 54, 55; M.T. 1954, 55; AF catalog 1940. Wanted Min. Locomotive Magazine, Live Steam and Model Engineering Books. R. Jaskovski, RD 1, Shippenville, Pa.

SALE: O scale frt. cars, rails, ties, trks, car parts, etc. or trade for Truscale S gauge roadbed, str, switch blocks, steam negatives of Grand Trunk Rlwy. John Davis, Locke Mills, Maine.

FOR SALE OR TRADE: AF Union Pacific Freight, track, transformer, access. Trade for HO. Value $34.95. Will sell for $25. Prompt answers. M. L. Garrison, 296 Larch Lane, Lexington, Ky.

SELL OR TRADE FOR HO: Magic tricks, small motor, coins, camera, film. List free. Eldon Herr, 423 S. Walnut St., Orrville, Ohio.

FOR SALE: 0-27 trains 2-6-2, operating cattle car, oper. box car, cab.. etc., value $150 for only $50. Ken Claeys, 556 Larspur St., Philadelphia 16, Pa.

TRADE: S gauge L5'xW4', 2 sidings, rubber based layout towers, stations, house, diner, stands (Illuminated), Silver Comet Streamliner (Knuckles) No. 953R baggage club, transformer — for L5xW4 HO layout, No. 451 "Lake City" Hobby line, No. 8000 Coach or 16 MM sound projector. Robert Hartwick, 25 Second St., Haverstraw, N. Y.

WANTED: Lionel—American Flyer catalog 1930 to 1953. Alex Frankel, 118 S. 11th St., Terre Haute, Ind.

FOR SALE: Have $150 Lionel steam, diesel, frt. cars, track, etc. Self addressed envelope for list. Harvey Dill, RFD, Byers, Colo.

WANTED: Info. details for Athern steel auto cars and crane assembled and Ulrich drop bottom gon assembled. Ronny Ritter, RD 1, North Lawrence, Ohio.

FOR SALE: AF switches; pr. R.C. $11, 2 pr. manual $5 ea., 90° crossing $1.50, R.C. uncoupler $1.50, caboose $2, box car $1.50, and others. Send for list. Neil Shankweiler, 387 W. Oakland Ave., Doylestown, Pa.

SALE OR TRADE: Penn Line 4-4-2 kit, Mantua General and Belle test run only. Varney Diesel sw. 8 wh. drive, lights, car kits, track, switches, etc. Want HO steam locos, what have you. Robert P. Heitz, Box 110, Villas, N. J.

FOR SALE: S gauge Enhorning F7 diesel $25, Miller 2 motor diesel switcher $20. Rex dockside $45. All D.C. 2 A.F. box cars $3, caboose $2, log unloading car $4, Hudson apart but complete $15, 25 pr. A.F. trucks and hook couplers $10. R. Dezelin, 190-02 117 Rd., St. Albans, N. Y.

FOR SALE: Lionel 027 layout, locos, frt, 80 watt transformer, 3 pr. switches, etc. Lionel and Marx access. First $75 takes all. Send for list. Barry Dayne, 1871 E. 24th St., Brooklyn, N. Y.

FOR SALE: Lionel 027 set, cars, tracks, access., etc. Want $48. Stamp for list. James Clark, 426 68th St., Brooklyn, N. Y.

TRADE: PSM IRR trolley for PSM Brill in good shape. Charles Robb, Box 522, Binghamton, N. Y.

FOR SALE: AF equip. in excellent condition. pr. RC switches, whistling bill board, operating box car, 302 loco, track, roadbed. Frt cars, and red pullmans. Stamp for list. Gilbert Starr, 1197 Anderson Ave., Bronx 52, N. Y.

WANTED: Lionel-American Flyer catalogs 1930 to 1953. Alex Frankel, 118 S. 11th St., Terre Haute, Ind.

TRADE FOR MANTUA HO: Have Lionel barrel loader, operating milk car plus access, for good HO engine plus item for letters on box car, gondola, caboose, and 2 switches. Stan Booz, 417 Krewson, Willow Grove, Pa.

FOR SALE: Ives, Lionel, American Flyer sets, standard & O gauge. Will trade for old Ives trains. F. Heimann, 580 Forest Rd., West Haven 16, Conn.

FOR SALE: Prewar trains, passenger, freight, on table 20'x10'. Complete scenery, buildings, street lights, with a circulating water fountain. Best offer. Jack Folsom, 6357 Muscatel, San Gabriel, Calif.

FOR SALE: HO and TT items inc. track, etc. Write for complete list. William F. Maughan, 5 Sylvan Rd., Durham, N. C.

SALE: Over $100 HO equipment for $65. List for stamp. Robert Bauer, Dawson, Pa.

SWAP: One pair of New Skis worth $35 for what have you in HO. Charles L. Cain, Rt. 2, Bedford, Pa.

SELL OR TRADE: Varney A-B-A Brute kits. All metal Mantua Sharknose. 4 English coaches (metal). Sell or trade on Hobbytown, Bowser equip or older type alumn. rolled Blue Line full length pass. cars or kits. Lloyd Ulerick, 12 mile, Indiana.

WANTED: "O" gauge NYC or St. Paul type electric loco. Prefer Lionel 254 or 252. Also any electric type loco. Reasonable price. Have "O" and Std. gauge tinplate to trade or pay cash. All letters answered. T. Graham, 127 Cottage St., Jersey City, N. J.

TRADE OR BUY: Trade new kits or pay cash for built up Palace poultry car, Ambroid snow plow, watermelon car. R. H. Johnson, Box 386, Wakefield, Kansas.

WANTED: No. 840 Lionel industrial tower and No. 700 Hudson tender. No. 716 and No. 2956 Hopper cars. S. A. DiSanto, 665 Ardmore Ave., Ardmore, Pa.

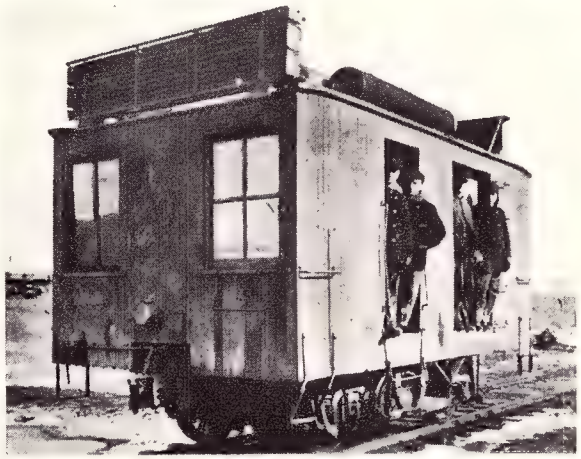
FOR SALE: Varney Casey Jones, excellent condition. Valve gear and many extras. $25. David Zibton, 8125 Manistee Ave., Chicago 17, Ill.

FOR SALE: Two Lionel modified scale No. 763E Hudson $60.00 each. All Nation scale diesel switcher $20.00, two Lionel No. 1665 0-4-0 switchers $15.00 each. Trade for Lionel 072 solid rail track and switches or new Lionel diesels and 623 or 624 Lionel diesel switchers. W. Clark, 2 Acton Place, Annapolis, Mdp.

WANTED: RR songs with words & music wanted for model club sing song fiestas. Must teach junior and elder members. Contact Bruns. Palms Model RR Club, 10740 Woodbine St., Palms, L.A. 34, Calif.

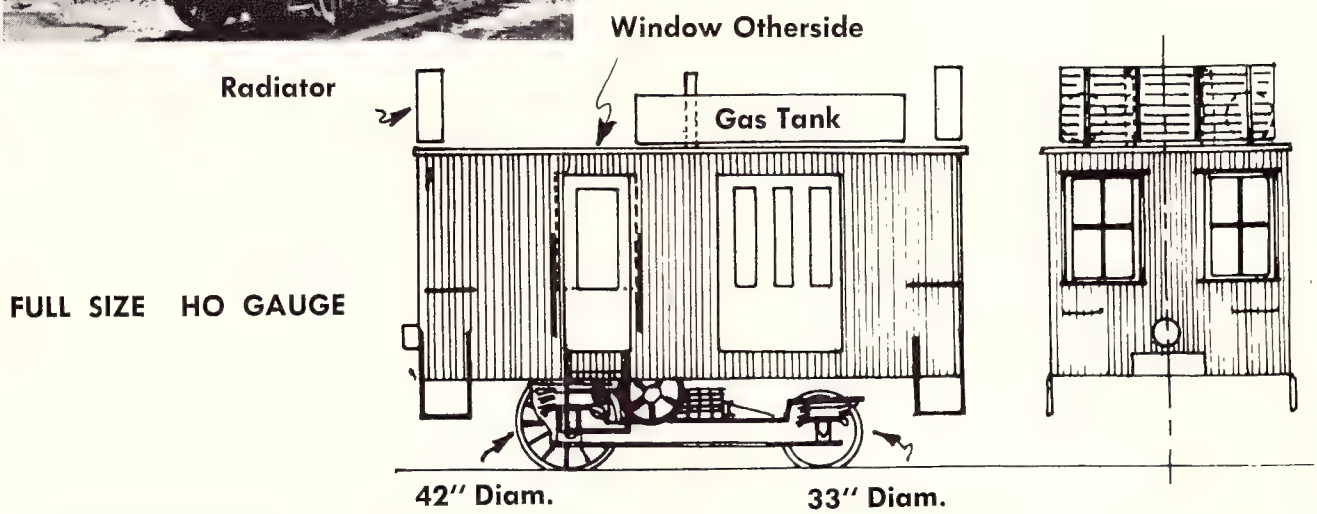
FOR SALE: Lionel 700E, 763E, 708E Switcher, 227 Switcher, 700 freight, 2900 freight, 2600 pullman, 072 R-C-switches, 313 Bascule Bridge, 182 Electromagnet Crane. W. McShane, 1819-62 St., Brooklyn 4, N. Y.

CHARLES CITY WESTERN



Gasoline Powered Locomotive

There's a McKeen Motor Car truck powering this contraption used years ago on the Charles City Western RR, an Iowa railroad which later became an interurban line. Only one axle powered the prototype and the custom body looks like it might have been turned out by a former builder of hen houses. The car dates back to about 1912. What lines



THOMAS INDUSTRIES
SHAWNEE OKLAHOMA
O GAUGE
SCALE & TINPLATE
BIG ILLUSTRATED CATALOG 25c
LOCOS—CARS—ACCESSORIES

CUSTOM BILT LOCOS

Special frames machined to order from bar stock brass. Also complete running mechanicisms made to order, any gauge, servicing and rebuilding in H O and O gauge.
JOSEPH DORAZIO
2525 W. Main St. Norristown, Pa.

When writing to advertisers, please mention Railroad Model Craftsman

MODEL RAILROAD SUPPLIES EXCLUSIVELY
Hi Quality MODEL DISTRIBUTORS
We Sell Wholesale Only
7655 Melrose Avenue Los Angeles 46, Calif.

WHEN IN THE
Pennsylvania Dutch Country
DON'T MISS
"Roadside America"
300 Years of
American Life in Miniature

We are now open in our new location with a larger, greater and more beautiful display than ever before—with many new attractions never seen in miniature displays before. Over 6,000 gallons of water flowing in streams each hour! Mountains 15 feet high! A sight never to be forgotten. Send for colored folder. You can travel here by bus with East or West—see your Travel Agent. Traveling on Penna. Turnpike East—be sure to turn north at "Harrisburg *East Shore* Exchange" to 22—see map.

You will be amazed—be prepared to see more than you expect. Started in June 1903; now celebrating our fiftieth anniversary! Fifty years in the making by one man and family!

Picnic Grove, Zoo and Trails in the Woods

Open every day from
9 a.m. to 10 p.m.

ALSO, VISIT OUR
PENNSYLVANIA DUTCH
GIFT HAUS

One of the most exclusive gift houses in country. On U. S. Route 22, between Allentown & Harrisburg, Pa.
8 miles west of Hamburg.

"Off'n the Table Top"

News and Views of TT

By Glyn Lewis

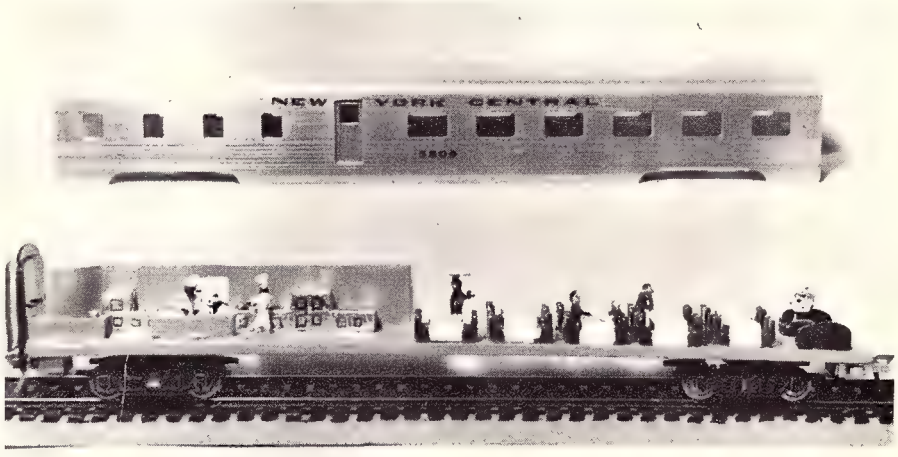
WELL it may be May to you . . . but the calender above this typewriter tells us that it's March 1st! Which means we are still recuperating from the New York Society of Model Engineers show in Hoboken. The show was open to the public for 77 and a half hours. Due to our working hours we missed 13 hours, so that's 64 and a half hours on the feet. We want to thank Henry Schatz. Henry Schatz was there with us most of the time and without him we wouldn't have had a show. Erik Nielsen showed up a couple of times as did Sherm Dance. On Lincoln's birthday both Henry and this writer had to work a full day, and as the show was a full day we were in bad shape, but a hero named Joe Donnelly showed up and kept the display running for several hours. Thanks a million Joe! Happy TTing to you. We want to also thank the manufacturers whose contributions made our display possible. Once again many thinks to the members of the N.Y.S.M.E. for all their help. Y'see we don't belong to the club, but the attitude of the club is not, "You rented the space, now don't bother us." No sir, they are most helpful with tools, wiring and lending a hand. To the president, Dr. Calvin Askley, thanks Doc for your cooperation, encouraging interest and all those jokes that made our day pleasanter when we worked under pressure to get the layout ready.

As you may know this was the last show to be held in Hoboken. We say this with a heavy heart as it will not be easy for the Society to find new quarters of comparable size. The government has decided to put in a post-office. . . . the thought of dismantling the mighty Union Connecting RR is staggering, and the idea of destroying the work of over a hundred men for nine years is heartbreaking. GOOD LUCK to you N.Y.S.M.E.!

It was a great show tho' and the crowds were immense. We met many TTers made many more, and made countless friends. Well over a thousand pictures must have been taken of our 6'x10' fully sceniced TT layout.

One of the friends we made was Herbert Evander of 194 Denver Road, Paramus, N. J. Herb stopped by with his H.P. Diner. Yes, just a standard H.P. streamlined diner lettered for the New York Centrl . . . on the outside, but on the INSIDE! Tables, complete with all the settings, diners, waiters, cooks, etc. All the TT people were built up with wire and solder and then painted. No detail in TT, eh! The photo of this car is reproduced on this page, photo is by Ralph Morgan. Speaking of detail, we are the first to admit that in O gauge it is easy to incorporate detail, but where we differ with many is that we feel that it's easy in TT too. Here's an interesting fact . . . at the show none of the O gauge coaches had any seats or other internal detail, but ALL the TT coaches did! (Keep it up, Lewis. Page 69 for you next month! Ed.)

A new item now available and of definite interest to TTers is the imported Faller City Building Kits 901-902. It is difficult to say how many buildings can be built from these plastic kits . . . from six to a dozen perhaps, depending on the size of the buildings you want. These buildings are rather old world in flavor, particu-



We can almost smell that succulent shrimp ala newburg being made out in kitchen by Julius, while Andy is getting that single gentlemen a bottle of Bud. Slide the car body back on and the diner will be all set for hooking onto the Wolverine.

larly the roofs, but by making the roof a flat one you have a real 1880-1910 type of American city building. Certainly here in New York we have many of them. They are supposed to be HO, well mebbe. . . . Here in our apartment the doors are 30" wide and 7' high. In the kit the doors vary from (TT scale) 30" to 36" wide and from 7' to 8' high. Our rooms are 9' high. The kit rooms are a TT 9' high! HO?, yes great for background, TT? and how! These kits sell for about $7.00. We found in some case the colors were a bit gay, pink for instance . . . but Floquil paint soon fixed that. For a really neat job paint the walls before putting in the beautifully detailed window frames and doors. The kit includes a tube of plastic cement that when carefully and sparingly does a marvelous job of welding the parts.

We have often spoken of "Perma-Scene" for making your mountains, etc. Well, we can't mention it to often, but we just finished a cut about 4 feet long that is supposed to be through crumbling statified rock. We built it up with the "improved" Perma-Scene, which is lighter and coarser than the regular and we must say we are thrilled by the results. Actually it does not need painting since the color is most natural, but as we wanted to match some other rock outcropping we painted it with Floquil "Earth" and worked it over with dirty Dio-Sol. Speaking of scenery, we had many compliments on the scenery on the TT layout at the show, many liked our "grass", and wanted to know how it was done. We use flock. "Flock" is rayon fibers but about 1/32" long, and is available in many colors. We use green mixed in some places with yellow, in some with brown. Our eyes seeing a fiber of green next to a yellow one call it light green, so that the colors may be blended as in a process color picture. For an adhesive we have found enamel to be the best, we buy the cheapest green enamel (enamel is stickier than flat paint, and with the flock stuck to it, dull). Sprinkle the flock on with a sieve or shaker can. After it dries brush off the excess, or take it up with a tank type vacuum. Be sure the tank is clean, and the flock can be used again and again. The flock we use is manufactured by General Cement Mfg. Co. Rockford, Ill. It is called "Felt-Koat Flock" and comes in a sifter can. The 2 oz. size sells for about $1.25, and will supply enough grass for the average size layout. Small bags of flock are available at Art supply stores, sell for 20 cents and have enough grass for a couple of feet. It is manufactured by C. V. H. Laboratories Co., Irvington, N. J.

Psst . . . watch for an HO trolley manufacturer getting into TT.

From the TT Mail Car

A nice letter from the Air Force, the 514th Fighter Interceptor Squadron, with a handsome pass included.

514th Fighter Interceptor Squadron
APO 198, New York, N. Y.

Dear Mr. Lewis:

Since I am about to swing over to TT, you may as well have a pass to the OO&R, which will go all TT sometime next April, when I return to the Colonies.

I have been in HO for some time now, but have always had a secret yearning to go into TT and now I have a real good excuse 4' x 8' space. A modified version of Earl Cochran's Ute Short Line has just left my drawing board, and funds are now being raised to buy the necessary AL Co. wood roadbed and HP rail.

You can pass this message on to the Brass that run RR Model Craftsman for me—I hereby cast my vote for you to be granted at least a couple more pages for your "Off'n the Table Top" column. Does that sound like I want the column to continue? Even when I was an avid HOer, I always checked your column.

As things progress, I'll try to keep you posted on the doings of the Ornery Obstinate and Rusty RR, *ALL TT*.

Sincerely,
(M/Sgt.) David W. Nutter.

Thanks Dave, and welcome to the happy ranks of TT. Certainly keep us posted on your progress and send photos . . . and that goes for all of you!

Don't Fail to . . .

Get your big 8 page Kemtron TT catalogue, FREE! . . . The new Gandy Dancer 28 page TT catalogue, 40c . . . The new enlarged 28 page H. P. Products TT catalogue, 10c . . . All these should be near the hand of every TT gauger. Another good thing to have near you is the Northeastern Scale Models price sheet (Box 100, Ballard Vale, Mass.) (a 3c stamp will get it). Ask your dealer for these catalogues, be sure to ask for (and get) the Gandy Dancer Catalogue C. The new H. P. Products catalogue has a *green* printed cover (Red was 1954, Blue was 1955 . . . 1956 is Green).

Many of you have asked about quieting your track, may we suggest cork as a quick, easy, clean way of cutting down on noise. Star Products has cork roadbed ready cut for TT in straight, curved, switch blocks etc. We keep getting queries about TT "people," don't know why more dealers don't get them in . . . they are really "beauts," Weston Mini-Figure Co. and 'Table Top Miniatures both have 'em.

Well, that winds up another "visit," see you again next month. In the meantime, write. And say, why don't you get some really good photos of that new loco, or part of your layout. We'd like to use them on this page. Good sharp closeups are best, and if possible get 'em enlarged to 4"x5" or larger. Cherio!

T T MODELERS

We announce that we have taken over the "Gandy Dancer" line and will continue to manufacture and market the products as formerly.

"Gandy Dancer" Catalog "C", 40c ppd.

EDWIN J. FETYK

CARMEL ROUTE 2 NEW YORK

TT Catalogue

Complete stock of all TT items.
We pay all postage and insurance costs on all orders in U. S. A.

New 1956 catalog — 20c

ROBERT MCMINIS

221 Ralph St. Belleville, N. J.

TT NOW IN EASTERN CANADA

ALL H.P. PRODUCTS AT U.S.A. CATALOGUE PRICES

W. H. McCORMACK MFG. CO.
289 Adelaide St. West
TORONTO — CANADA

IF YOUR DEALER HASN'T GOT WHAT YOU WANT

ASK HIM TO ORDER FOR YOU

HE CAN GET IT FROM TROST

TROST MODELCRAFT & HOBBIES
3140 W 63RD ST., CHICAGO

DO THE JOB RIGHT!

WORK WITH A COPY OF

HOW TO BUILD A MODEL RAILROAD

AND YOU CAN'T GO WRONG

Most complete instruction book on railroad modeling published.

Answers all questions for both beginners and oldtimers.

PRICE **$2.00** POSTPAID

RAILROAD MODEL CRAFTSMAN

RAMSEY NEW JERSEY

H. P. HIGH PRECISION

H. P. Products are precision built of carefully selected materials chosen for the specific purpose and carefully machined for fine performance and long wear.

We do not make plastic toys but concentrate on well engineered and well built precision equipment that the true scale fan appreciates.

Never a compromise with quality.

Start in TT with H. P. Products for a life time of fun

The new A & B G.M.C. Diesels are in volume production as are the new Baggage-Postal-Diner-Coach-Pullman and Observation. Send for new literature 10c.

H. P. PRODUCTS CO.
BOX 350A
HARTFORD CITY, IND.

BACK ISSUES

NEW INVENTORY REPORT LISTS MANY BACK ISSUES OF "TOY TRAINS" MAGAZINE NEVER BEFORE ADVERTISED!

Toy Trains

complete Your Library

Toy Trains — 1954—9 issues — $3.50

JANUARY
World War Motor Car No. 203 (Lionel)
Layout Blueprints
Easy-to-Build Grocery Store . . . & Hotel
Light Weight, Strong Tunnel
Working With Plaster
Tinplate Tricks

FEBRUARY
American Flyer's Loco No. 13
Wrecking Crane Construction
Build A Cooling Tower . . . & Wooden Trestle
Old-Time Passenger Cars
Waterways and How to Use Them
Turntable for S Gauge

MARCH
German Bing Toy Trains
Adding Detail to Plasticville Stations
Basic Layouts for O & S
Interchanging Lionel & AF Accessories
A Town From Rural America
How to Build Passenger Cars

APRIL
Check List of Scenic Materials
Layout Design Pageant
RR Oddities
Flat Car Loads
Operating by Card Orders
How to Organize a RR Club

MAY
Model RR Races
Portable Weatherproof Pike
Build A Covered Bridge
Completing Your Scenery
Build Your Own C.P. Huntington
Foot Bridge

JUNE
Build Your Own Freight Cars
Detailing A Plasticville Ranch House
How to Build Miniature Structures
Trackwork Maintenance Shed
Detailing A Coal Loader . . . & Passenger Cars
Easy Way to Build A Bobber

JULY
Toy Train Travelogue
Easy-to-Build Signal Tower
Tools and How To Use Them
Automatic Crossing Gates
Tricks With Track
2-Story Plasticville House

FALL
Table Top Railroading In O Gauge
Easily Built Switching Locomotive
Arizona Central R.R.
Wiring and Lighting
Building a 4-4-0 Camelback Loco.
How to Draw Layouts

CHRISTMAS
105 Layouts
How to Build a Round House, Barn, Log Cabin, & Ice House
R.R. Station Cut Outs
Tricks to Make Your Trackage Look Real
Introduction To Plaster Scenery

Toy Trains — 1953-11 issues — $3.50

JANUARY
Hamm & Burger Sausage Works
One Evening Balsa Projects
Build a Railway Cannon
Wiring a Two Rail Layout
Bilgewater Office Building
Toy Trains Picture Pageant

FEBRUARY
Repainting Passenger Equipment
New Ways to Build Your Railroad
Miniature Ai craft Beacon
Easy to Build Food Market
More Fun with Switches
Model Trackside Warehouse

MARCH
Practical Ways to Build Lift Bridges
Inexpensive Model Railroading
Miniature Fuel Dealers Yard
Rapid Transit Car for Beginners
A Miniature Tool Works
Improving Trucks & Couplers

APRIL
A Complete Industrial Area
Double Deck Section House
Remodeling a Lionel Scout Loco
Build this Tank Car for $1.00
Practical ABC's of Wire Work
A Complete Railroad in Sections

MAY
Layout and Design Forum
Build an Overhead Crossing
Constructing a Saw Toothed Factory
Signals: How to install and operate
Generate Electricity at Home
All Purpose Combination Control

JUNE
Here Comes the Model Circus
Depressed Center Flat Car for $1.00
Build a Miniature Power Dam
Engineer Control of Locomotives
Converting a Plan to a Railroad
Finishing the Tail End

JULY
Getting the Most from an AF Switch
Constructing Portable Scenic Units
Running Trains by Signals
How to Build a Wayside Station
Operating by Card Orders
Outdoor Railroading

AUGUST
Toy Trains Travelogue
Make Your Own Billboard Reefers
How to Build a Searchlight Car
Build Your Own Wye Switch
Easy to Use Momentary Contact Switch
Large Railroad Simplified

SEPTEMBER
Detailing Toy Train Cutouts
Operating a Permanent Layout
Model House Under Construction
Modernize Your Old Locos
Easy to Build Icing Facilities
Fold-away Model Railroad

OCTOBER
Building a 6x5' Layout
Table and Trackwork Construction
Electricity and Your Locomotives
How to Use the New AF Couplers
Expanding a Model Railroad
Building Junction City (4 Stores)

DECEMBER
Build a Work Train
Reworking Tinplate Track
Simple Electrical Repair Work
How to Plan and Build Grades
Christmas Time Trimmings
Detailing a Plasticville House

Toy Trains — 1952—3 issues, 1951 —1 issue — $1.35

JANUARY 1952
Miniature Lumber for Sale
Antique Auto Show
Decorating the Train Room
Building a Bulk Oil Plant
Miniature Fence Construction
Railroad Freight House

JULY 1952
Outdoor Model Railroading
Sandhouse for Your Pike
Restoring Old Cars
Post Office Cut Out
Jiffy Turntable
Sand & Gravel Yard

NOVEMBER 1952
How to Build Old Culverts
Station Cut Outs
Setting up a Snow Scene
Projects of Balsa
Bldg. a Miniature Hotel
Problems of Two Rails

DECEMBER 1951
Control of Lionel Switches
Miniature Zoo for your Pike
Extras for Christmas Time
Build an Old Stone Tunnel
One Evening Building Projects
Simplified Lighting of Houses

THESE BACK ISSUES OF TOY TRAINS HAVE NEVER BEFORE BEEN OFFERED TO RMC READERS

TOY TRAINS
BACK ISSUE DEPT. H
RAMSEY, NEW JERSEY

Single copy price any issue, 50c each

Please rush the complete sets of back issues as checked below. I enclose a check or money order for $..... in payment. (Please do not enclose cash).

☐ 1954—9 issues ($3.50)
☐ 1953—11 issues ($3.50)
☐ 1952—3 issues plus 1951 issue ($1.35)

NAME .....

STREET .....

CITY ..... ZONE ..... STATE .....

(Please print or type. If you do not wish to clip magazine, enclose your remittance with letter).

Localized Dealer Service

ARIZONA

Phoenix—Hamp's Hobby House
1147 E. McDowell Rd. AM 4-0332

Phoenix—Webster's Hobby Shop
521 E. Camelback Rd. AM 6-5343

Tucson: Tucson Train Shop*, 4352 E. Speedway

CALIFORNIA

Alameda—Alameda Craft & Hobby Shop
1315 Park St. LAkehurst 3-3980

Alameda—Pacific Miniature Train Stop
1708 Willow St., Rear LA 3-5570

Burbank—Hobby Junction
834 Hollywood Way TH 8-1267

Daly City: Robbies Hobbies*, 6073 Mission St.

EL MONTE

EL MONTE MODEL SUPPLY
Open Evenings 7-9 except Fri. & Sun.
11505 N. Pacific Ave. FO 8-9527

Glendale—Finley's Hobby Craft
340 N. Brand CI 3-9332

Hollywood: Reginald Denny*, 5751 Hollywood Blvd.

Inglewood—Hobbyland
1205 North La Brea ORegon 8-3611

Long Beach—Jiggs Hobby & Crafts
938 South St. GA 2-2349

Long Beach: Brownie's*, 2031 Pacific Ave.

LONG BEACH

Complete Stock of Model Supplies
Railroads — Airplanes — Ships
RAY'S HOBBY MODEL SUPPLIES
1222 American Ave. Long Beach 13

Los Angeles—Allied Model Hobby Shop*
10938 West Pico Blvd. GR 9-2228

LOS ANGELES

Model—Hobby—Craft—Magic Supplies
"Simply Everything"
Daily—Sundays 9 A.M.—9 P.M.
"COLONEL BOB'S"
3709 W. Pico at 4th Ave. L.A. 6

Los Angeles 43—Crescent Model and Camera Shop, 5348 Crenshaw Blvd.

LOS ANGELES

Railroads (all gauges)
Machine Work Railroad Repair Service
TROXEL BROS. MODELS
202 S. Western Ave. Los Angeles 4

Modesto—Hay's Hobby House
908 J. St. Phone 2-9340

Monrovia—The Model Mart
112 E. Lemon Ave. ELliott 8-7279

MONTROSE

Good Used Lionel
Customer Operated Layouts
Custom Built Railroads
American and Marklin HO
KNAPP'S
TRAINS & HOBBIES
2525 Honolulu Ave. CHurchill 9-7226

Napa: Carl's Hobby Shop*, 2532 Jefferson

Oakland—Root's Hobby Hub
6036 Telegraph Ave. HU 3-4543

Oakland: Jack Collier's*, 3669 Grand Ave.

Palo Alto—Miniature Travels
3345 El Camino Real DAvenport 3-1514

Palo Alto: The Engine House*, 3777 El Camino

Palo Alto—Palo Alto Hobby House
228 Forest Ave. DA 3-1993

Pasadena—Ace Model Shop
1655 E. Colorado St. Sy 3-6061

Sacramento—Hobbycrafts F. J. Locker
1616 Jay Street GI 2-1293

San Carlos—J & J Hobby House
1480 Laurel St. LYtell 3-5278

SAN DIEGO

FRANK "THE TRAINMAN"
Lionel, American Flyer Service
Model Railroading Exclusively
4310 Park Blvd. CY 5-1611

SAN DIEGO

Marklin Headquarters—Official Service Depot
American Flyer Authorized Service Station
Lionel Trains Repaired
Planes—Boats—Cars
GLENN'S TRAIN HOBBY
1125 C St. BE 3-5395

San Diego—The Whistle Stop
3819 Sixth Avenue CY 5-7340

San Anselmo: Marin Model*, 800 San Anselmo Ave.

SAN FRANCISCO

Noriega Hobby Shop
John's Trains
3917 Noriega St. OV 1-7838
See us for trains, scale, tinplate
Gilbert, Marklin, Lionel specialists
If it's good, we have it

San Francisco—Emporium, 835 Market

Santa Ana—Santa Ana Hobby Shop
1111 S. Main St. Kimberly 2-6106

Santa Monica—Aero Hobbies
1319 Santa Monica Blvd. EX 5-0128

Studio City—Valley Model Railroad Shop
12041 Ventura Pl. SU 3-9079

TORRANCE

Model Railroads—HO gauge a Specialty
Machine work and repair service
Custom Building Custom Painting
DORY'S MODEL SUPPLY
1307 Post Avenue FA 8-3768

Visalia: Visalia Toy*, 115 N. Encina

COLORADO

Colorado Springs—Lemle's Roundhouse
2410 No. Nevada (Rear) ME 2-1969

Denver—Denver Hobby Shop
1524 Colorado Blvd. EA 2009

Denver—The Hobby Dep't. Store
1721 Stout CH 1059

Denver—The Hobby House
610 15th St. TAbor 1742

Denver—Model Hobby Shop
3018 W. 38th Ave. GRand 8121

CONNECTICUT

Bristol—Hobby Center
92 N. Main St. Phone: Ludlow 3-7273

BRIDGEPORT

Bridgeport's Only Authorized
Lionel & Amer. Flyer Service
Sales & Service for HO, O & S Gauge
Model Railroad Supplied
Connecticuts Exclusive Train Center
TRAIN EXCHANGE CENTER, INC.
631 Fairfield Ave. FO 8-2364

Hartford 12—Herb's Hobbies
637 Albany Ave. CH 7-2284

Hartford—Hobby Center
218 Pearl St. Phone 6-1482

Manchester—Hobby Shoppe
Center & Griswold Sts.

Middetown—Amato's Hobby Center
600 Main Street Phone DIA 6-7083

NEW HAVEN

Amer. Flyer, Lionel, Marx trains
repaired. Complete stock HO gauge
Under new management
PARMELE & STURGES HOBBY CENTER
51 Crown St. Main 4-2632

Newton: House of Flowers & Crafts
Newton Shop. Center
Norwich: John's Bike & Hobby*, 12 Mechanic

SOUTH NORWALK

Authorized Lionel & AF Service —
Model Railroad Supplies — Complete
Shop for Trains, Planes, Boats, etc.
"HOBBYLAND"
57 N. Main St. Tel.: Temple 8-6833

Torrington—The Model Railroad Shop
35 Water St. Phone 7001

Wallingford—Colony Hobby Shop
846 S. Colony Rd. Rt. 5 Tel. 9-2433

West Haven—Geo's Hobby Shop
625 Campbell Ave.

DELAWARE

Wilmington: Brandywine Hdwr*, 2006 N. Market
Wilmington: Hobby Center*, 845 Tatnall

DISTRICT OF COLUMBIA

Washington: Superior Lock, 1410 L St. N.W.
Washington: Corr's*, 812-818 9th St. N. W.

FLORIDA

CORAL GABLES

Parts—VARNEY TRAINS—Service
Most complete parts stocks—Sudden service
Johnny Peek—Off'n the Seaboard
THE MODEL SHOP
219 Aragon Ave. HI 8-1837

Hollywood: Jim's Hobby*, 2132 Hollywood Blvd.

FT. LAUDERDALE

Authorized Lionel & American Flyer
HO Gauge—Ships—Planes—Everything for the model builder. Open 9 AM—9 PM Mon.-Fri.
Strictly Hobbies at Star Hobbies
STAR HOBBIES
1000½ E. Las Olas Blvd. JA 2-5794

Jacksonville—King St. Bicycle and Hobby
1249 King St. Phone 7-5855 or 8-4912

Miami—Bill's Hobby Shop
9028 N.W. 22nd Ave.

Miami—The Hobby Center, Inc.
3621 S.W. 8th St. Phone 4-9819

Miami: Orange Blossom Hobby*, 1396 N. W. 36
Orlando; Southland, 217 N. Main

TAMPA

EXCLUSIVELY RAILROADS
Largest Selection in the South
Open till 8:00 P.M.
CHESTER HOLLEY
3641 S. Dale Mabry Phone: 617202

West Palm Beach—Southland Cycle
3628-30 S. Dixie Hwy. Phone 5208

ILLINOIS

Bloomington—Harry's Hobby House
-02 E. Market St.

Blue Island; Scotty's 12661 S. Western Ave.

CHICAGO

Lionel train experts. Free catalog.
Free mailing on all purchases
A-ABART ELECTRIC CO.
1259 N. Ashland Ave.
Phone: ARmitage 6-6383

CHICAGO

Chicago's greatest stock of
Model Trains in O-HO-TT-S gauges
Parts galore in SHIPS—PLANES—ARCH'I supplies
ALL NATIONS HOBBY SHOP
182 N. LaSalle St. Chicago 1

Chicago—Art's Cycle & Hobby Shop
816 E. 75 St. TR 4-4100

Chicago; Brittain,942 W. 63rd St.
Chicago; Gross Radio, 6767 Stony Isl. Ave.
Chicago; G&H Hobby*, 5823 W. Irving Pk. Rd.
Chicago: Hobby Craft Ctr*, 1303 W. 79th

CHICAGO

"Everything for the Hobbyist and Sportsman"
Lionel and American Flyer Repairing
BEND HOBBY & SPORTS SHOP
5519 N. Lincoln SUnnyside 4-9140

CHICAGO

Model Railroad Specialist
Transportation in Miniature
We Accept Mail Orders
HOLM'S HOBBY HOUSE, INC.
323A W. Madison St. FR 2-4343

Chicago: Lincoln Hobby*, 3328 N. Clark
Chicago: M&G Hobby*, 3445 N. Pulaski Rd.

Chicago—Mandel Brothers
State St. STate 2-1500

Chicago: Pilot Paint*, 5450 W. Belmont Ave.

CHICAGO

Available Items for ALL Modelers
Trains—Planes—Boats
SIMONSEN MODEL SUPPLIES
3054 N. Greenview EA 7-1565

Chicago: Stefan's Hobby*, 5908½ W. Fullerton Ave.

CHICAGO

Complete stock of kits and supplies for TT, O, S, HO railroads, race cars, boats, airplanes
TROST MODEL SHOP
3111 W. 63rd St. PRospect 6-1354

Cicero—Airplane Model & Hobby Shop
6129 Cermak Rd. OL 6-0224

Danville—Grack's Hobby Shop
17 W. Main St. PH. 8928

E. St. Louis-East Side Hobby
2303 State St.
Elgin: Schickler's*, 5 E. Chicago St.
Evanston: Hobbymodels*, 601 Davis St.
Galesburg: Ray's Hobby, 181 N. Cherry St.
Homewood: Glenn's*, 18721 Dixie Highway

Highland Park—Cycle & Hobby Shop
486 Central Ave. HI 2-1369

Joliet—Walt's Hobby and Model Shop
60 N. Joliet Phone 6-1632

LA GRANGE

Model railroad, airplane boat kits, toys, games, Lionel factory service station.
Open Monday, Thursday evenings.
LA GRANGE HOBBY CENTER
11 W. Calendar Fleetwood 4-1220

Libertyville; Taylor & Seiler
523-25 N. Milwaukee Ave.
Moline: Moline Toy*, 1511 6th Ave.

Oak Park—Reyff's Toys & Hobbycraft
113 N. Oak Park Ave.

Palatine: Pioneer Hby*, 12 W. Chicago Ave.

Park Ridge—Park Ridge Hobby Shop
30 Main St. TAlcott 3-4464

Peoria: Hobbymodels*, 418 S. Adams
Quincy: Bean Hobby*, 429 Hampshire

Rockford—Harry's Hobbies & Toys
508 7th St. Phone 3-4707

Rockford—Carney's
2501 Auburn St. Phone 2-9652

Skokie: Hob-Craft*, 7951 Niles Ave.
Waukegan: Waukegan Sport*, 105 S. Genessee

MANTUA TYCO
AUTHORIZED
SERVICE STATIONS

TO SUPPLY YOU WITH THE LATEST AND BEST IN MODEL SUPPLIES

Localized Dealer Service

INDIANA

Bridgeport: Caboose Train*, RR 1, Box 5

Evansville—The Toy Shop
1400 Oak Hill Rd. Phone 6-4859

Fort Wayne—Carroll's Model RR Shop
1215 Grant Ave. AN 3050

FORT WAYNE

"HO"-"O" gauge scale trains
Airplanes—Autos—Boats—Specialties
9:00 A.M. to 5:30 P.M.

DELUXE HOBBY SHOP
1220 E. Pontiac St. KEnmore 5054

Gary: Bran's Toy*, 4484 B'way
Goshen: Kintigh's Camera*, 102 S. Main
Indianapolis: Acme Bicycle*, 2317 E. 10th St.
Indianapolis: Broad Ripple*, 6220 Carrolton Ave.

INDIANAPOLIS

Trains—HO, Lionel and American Flyer
Planes, Crafts, Boats and Toys
Lionel and A F Factory Service

LES' HOBBIES AND TOYS
(Les' Repair Service)
4206 College HI 8925

JEFFERSONVILLE

Complete stock of kits and supplies for TT—HO—HOn3—S—O gauge railroads
Small parts are our specialty

SCHIMPFF'S
347 String St. Phone 3-8975

KOKOMO

Lionel-American Flyer—HO-O Gauge
Planes — Race Cars — Boats. Repairing
Open 10 a.m. to 10 p.m. Sun. 1 to 5.

HOLLOWAY'S HOBBY HOUSE
825 S. Washington St. Phone: 2-5890

Michigan City—Community Craft Hobby & Toy Shop
429 Franklin St. PH 8-8282

Mishawaka—Bob's Hobby Shop
713 N. Main St. Blackburn 5-8111

IOWA

DAVENPORT

Everything in HO Gauge
Lionel, American Flyer

TRI CITY HOBBY CENTER
201 E. 2nd 3-4794

Mason City—Don's Train Service
609 Jefferson Phone 2401

Waterloo: Model Railroad Shop, 436 Center
Waterloo: Smiley's*, 613 Water

KANSAS

Kansas City: Jim's Key*, 1622 Central Ave.
Topeka: State Hobby*, 1021 W. 6th St.
Wichita: Gwinn Craft*, 142-44 N. Market

KENTUCKY

Louisville: Fischer's*, 618 So. Fourth
St. Matthews: Kentucky Model*, 3805 Wilmington Ave.

LOUISIANA

Alexandria: Katy's Model*, 606 3rd St.

New Orleans—Zula Fricks
413 Royal Street MA 6557

MAINE

Lewiston: Joe's Train Shop*, 8 Tampa St.

MARYLAND

BALTIMORE

The Complete Railroad Shop
All Gauges—And Parts
We Assemble We Spray Paint

LLOYD'S
Model Railroad Headquarters
2111 N. Charles Street

Baltimore: The Doodlers*, 5216 Belair Rd.
Baltimore: Pospisil's*, 8024 Eastern Blvd.
Baltimore: Goffman's*, 330 Park Ave.
Hagerstown: Casey's*, 448 N. Mulberry

MASSACHUSETTS

Arlington—Bancroft Cycle & Hobby Shop
1377 Mass. Ave. MI 3-7878

BOSTON

Boston's Oldest & Largest Headquarters
Model Railroad & Traction Equipment
Custom Painting & Lettering

BOSTON MODEL RAILROAD CO., INC.
665 Atlantic Ave. Boston, Mass.

Boston: Hobbytown Store*, 4 Park Sq.

BOSTON

Model Railroads Exclusively
Lionel-American Flyer-Marklin
Complete Line of HO
Home of Tremont 26 Switch

ERICH FUCHS
26 Tremont Street Boston

Brockton: Brockton Hobby*, 55-57 E. Elm
East Dedham: Seales*, 24 High St.

FRAMINGHAM

JOE BROWN'S
HO & TT kits, sets, supplies
Sports & Hobby Goods; Free advice on your model rail problems..
Hours: 9 to 6. Wed. 9 to 1, Fri. 9 to 9
7 Kendall Street TR 2-1380

Greenfield; Howard's Model RR 424 Davis St.
Hyannis; The Hobby Shop, 538 Main St.

Lawrence—Modeler's Haven
288 Park St. MU 3-3222

NEWBURYPORT

Mantua-Tyco Authorized Sales & Service
All leading lines in HO, Boats—Planes
AF Sales & Service—Open Eve's.
Locos and cars custom built

ALLEN'S HOBBY SHOP
109 State St. Newburyport, Mass.

NORTHBRIDGE

Model Railroads & Hobbies
Open daily, evenings—ALL DAY SUNDAY
20 minutes from Worcester

WAYSIDE HOBBY SHOP
N. Main St.—Route 122
WHtinsv'le 4-22-4

Springfield: Hobbyland*, 285 Mill

Taunton—Earl's TV & Hobbies
36 Weir St. Tel. 45341

Wakefield: Armstrong*, 93 Albion St.
Worcester: Henry's*, 54 Trumbull

MICHIGAN

Battle Creek—Barker Hobby Shop
33 Capital Ave., N.E. Phone 8-8211

Benton Harbor: Twin City*, 565 W. Main

Bay City—Models Hobby Supplies
319 Third Ave. Bay City 2-1547

DEARBORN

Your best source for HOn3, HO & O Gauge
Kits supplies, tools and books
Dearborn's finest hobby shop
We accept mail orders
11 to 7 Open Sundays

STAR HOBBIES
22005 W. Outer Dr. Ph. Logan 5-9670

Detroit: Jack Davis*, 15120 Grand Ave.

DETROIT

Complete line HO Scale Model. Lionel & AF-approved Service Station. Block north of Tuller Hotel. 9 to 5:30. Monday to 9.

DOWNTOWN TRAIN & CAMERA SHOP
122 W. Elizabeth St. WO. 1-6932

Detroit—Models-Hobby Supplies
22441 Woodward Ave. LI 3-2242

DETROIT

EXCLUSIVELY MODEL RAILROADS
Books—Kits—Accessories
open daily 10 to 5; Monday till 6:30

TOM'S MODEL HOBBY SHOP
28 Duffield at Woodward
WO 3-3273

Detroit: Earl's Bike*, 16392 Harper
Detroit: N. W. Detroit Hobby*, 19446 Sunderland Rd.
Grand Rapids: C. A. Meyers*, 16 W. Fulton

Grand Rapids—Merrill's Hobby Shop
1420 Wealthy St., S.E. Phone GL 68335

Jackson—Model Railroad Specialty Co.
1915 E. Michigan Ave. Phone 4-2572

Kalamazoo—Dick's Model Railroad Serv.
3307 Dearborn Ave. Ph. 2-6268

Kalamazoo—Hiler's Model Railroad Shop
712 Southworth Phone 2-8248

Royal Oak—Dunn's Camera & Hobby
610 S. Washington LIncoln 2-7366

Saginaw: Norm's Train Shop*, 345 So. 25th St.

South Haven—Irv Johnson's Hobby Shop
255 Center St.

Ypsilanti: Ypsi Model RR*, 418 Maple

MINNESOTA

Excelsior—Gle-Craft Hobby Center
272 Water St. GR 4-9244

Mankato—Jos. Manderfeld Co.
509 So. Front St.

MINNEAPOLIS

Minneapolis Handicraft Center
Specializing in HO trains

Mantua Service Station
GAGER'S HANDICRAFT
1024 Nicollet Ave. BR 6757

Minneapolis; House of Hobbies
8036 Minnetonka Blvd.

MINNEAPOLIS

The Twin Cities' only All-Gauge Railroad Source. Kits and Ready-to-run. Hours 10 a.m. to 5:30 p.m., daily except Sunday.

RAY'S TRAIN SHOP
55 South Fourth St. ATlantic 0786

MISSOURI

Cape Girardeau: Hobby Center*, 626 Good Hope
Independence: Papenfus Hdwr*, Hwy 40

Kansas City—Ace Hobby & Craft
20 E. 39th St.

KANSAS CITY

HO-S and Lionel Trains
Planes — Toys — Crafts
Formerly Mission Scale Model Shop

BARR'S HOBBY SHOP
4611 Paseo LI. 9455

KANSAS CITY

Complete Sales & Authorized Service.
Lionel-American Flyer-Marx Scale Equip.

SIEBER BROS.
404 Westport Rd. Kansas City

Kansas City: Waldo Toys*, 2212 W. 74th st.

Maplewood—Hobby Chest
2728 Sutton

St. Louis: E. R. Johnston*, 3318 Chippewa

SPRINGFIELD

Railroading exclusively—
Approved service
Trains, trackage, layout supplies and Accessories
Lionel—KMT—Amer. Flyer—Penn Line

MODEL RAILROAD HOBBY DEN
611 Fremont Ave. at Cherry
Phone 6-2543

Lemay—Swift Model Shop
788 Lemay Ferry Rd. AU 2466

NEBRASKA

Omaha: Thills Toy Trains*, 5903 Carthage

NEVADA

Reno: Builders & Farmers Hdwr
127½ S. Virginia St.

NEW JERSEY

Atlantic City: The Roundhouse*, 7 S. Virginia Ave.

BELLEVILLE

Model Railroad Specialist
TT, HO, S, O Gauges—Sales & Service
Mantua-Tyco Service Station.

ROBERT McMINIS
221 Ralph St. PLymouth 9-0816

BERGENFIELD

HO TRAINS AND ACCESSORIES
planes , boats, tools and fittings
Handicrafts—supplies and instructions

HOBBY CENTER
7 Palisade Ave. DUmont 4-3338

BLOOMFIELD

Bloomfield's Complete Hobby Shop, HO—S—TT—American Flyer Sales & Service

"JACK'S HOBBY AND CRAFT HOUSE"
735 Bloomfield Ave. BI. 2-2887

Bridgeton: Walnut St. Hobby*, 31 Walnut
Cliffside Park: Lionel City*, 651 Anderson Ave.

CLIFTON

Model Railroad Specialists
Friendly, courteous service! Let us help with your Railroading Problems

CLIFTON HOBBYCRAFT
1241 Main Ave. Clifton, N. J.

Cranford: Cranford Camera*, 4 N. Union Ave.

ELIZABETH

America's Largest All Train Store
Specializing in O gauge

The famous HOBBY DEPOT, Inc.
274 N. Broad St. EL 2-7039

ELIZABETH

THE HOBBY CENTER
327 Morris Ave.
Elizabeth 3, N. J.
Est. 1933 Tel. EL 2-1622

E. Paterson: Lionel City*, 529 River Dr.
Garfield: Treasure House*, 27 Passaic St.

HADDONFIELD

South Jersey's Headquarters for Trains
All Leading HO Makes—Amer. Flyer—A.M.T.—American Flyer Service Station
Open 10 a.m. to 9 p.m. Daily;
10 a.m. to 6 p.m. Saturday
Free Parking for Patrons

HIGHWAY HOBBY HOUSE
Cor. King's H'way & Haddon Ave.
HAddonfield 9-6860

HASBROUCK HEIGHTS

Handling all scale gauges. Large parts stock. A.F. & Lionel
10 a.m. to 7 p.m. Wed. & Fri. 10 to 9

THE EASTERN MODEL RAILROAD CO.
169 Boulevard HASB 8-1838

Hillside: Hillside Hobby Sport*, 1303 Liberty Ave.

JERSEY CITY

"HO"—TRAINS:—Kits & Accessories
Train sets ready to run
Models—Planes—Engines—Boats

THE HOBBY SHOP
2182 Blvd. HE 5-9883

Livingston: Livingston Dog House*, 18 Mt. Pleasant
Merchantville: Richie's, 5 E. Maple St.
Nutley: Shannon*, 503-505 Franklin Ave.

Maplewood—Osmun's
1 Highland Place Tel. SO 2-4714

Merchantville—Zane's Model R.R. Shop
201 Linderman Ave. Phone 8-2677-R

Paterson: Perfection Radio*, 70 Oak St.
Paterson: Spivak*, 42 Main St.

MIDDLETOWN

Complete HO Supplies
Airplanes—Boats—Cars—Open daily 12-9, Weekends 10-9
Mantua-Tyco Service Station

GORDON'S HOBBY CENTER
Highway No. 35 Middletown, N. J.

TO SUPPLY YOU WITH THE LATEST AND BEST IN MODEL SUPPLIES

Localized Dealer Service

Parsippany—Rich's Hobbytowne, Inc.
Route 46 BOonton 8-2666
Paulsboro: Halverson Photo, 807 N. Delaware
Pittman: Crowley*, 42 Pitman Ave.

PARSIPPANY
Authorized AF Service
Lionel—HO—AMT Trains
Open Sundays and Weekdays,
Evenings till 9 p.m.
RICH'S HOBBYTOWNE, INC.
Route 46 BOonton 8-2666

Plainfield—Craftsman Model Shop
300 Park Ave. Tel. PL 6-6089
Preakness: Lionel City*,
Berdan Av. & Paterson

RUTHERFORD
Rutherford's leading R.R.
Headquarters TT, HO, S, O gauges
Lionel, Gilbert, Parts, Gargraves track.
PAUL'S HOBBY SHOP
306 Union Ave. GE-8-0192

Trenton: Marsh Hobby*, 1063 S. Broad
Trenton: Trenton Hobby*, 237 E. State

Vineland—The Hobby House
25 N. 6th St. Opp. City Hall OX 1-1745

WESTFIELD
Kits and Supplies for
Railroads, Boats and Airplanes
Since 1939
CENTRAL JERSEY MODELS
Cor. North & Lenox Ave. Westfield

Westfield: Play Fair*, 118 Elm

WEST ORANGE
Large selection of HO & TT Supplies
Planes—Boats—Motors
WILLOW HOBBY NOOK
25 Tremont Ave. West Orange

Woodbury: The Hobby Shop*, 136 S. Broad

NEW YORK
New York: America's Hobby Ctr*, 152 W. 25th
New York: Hobby House*,
3991 White Plains Rd.
New York: Rossignel*, 4779 Bway
New York: Van Courtlandt Hobby*, 5973 Bway

NEW YORK
HO—Lionel—A.F.—Marklin-Sales & Ser.
Radio Control Equip. Planes—Boats—Crafts
Daily 9 to 9 Sun. & Holidays 11 to 7
HOBBY MART
Port Authority Bus Terminal
(Heart of N.Y.C.)
625—8th Ave. BR 9-5869

NEW YORK
Trains are our business—we have no side-lines. Authorized repair station. Mantua, Thomas, General Models, Lionel, American Flyer, etc.
MODEL R.R. EQUIPMENT CORP.
23 W. 45th St. JU. 2-2760-1-2

NEW YORK
Trains from the world over!
Accessories, parts & repairs, all gauges
World's leading hobby house. 5 floors
POLK'S HOBBY DEPT. STORE
314 Fifth Ave. at 32nd St. BR 9-9035

Brooklyn 1—Abraham & Straus
Dept. No. 661 TRiangle 5-7200

BROOKLYN
Authorized Lionel & American Flyer
Service Station. HO scale kits and sup-
plies. S, O gauge train accessories
BROADWAY HOBBYCRAFT
1638 Broadway Glenmore 2-8866

Brooklyn—L. Jaffe Hardware
8423-20th Ave. ES 2-9072
Brooklyn—Ray's Hardware Co.
120 Flatbush Ave. TRiangle 5-1552

BROOKLYN
Lionel, Amer. Flyer, O, S, HO, TT kits,
accessories. GarGraves trackage—Layouts,
Repairs. 9:00 a.m. to 10 p.m.
WALDELL HOBBIES
45 Newkirk Plaza ULster 9-0048

Bronx—Bronx Atlas Supply
412 East Tremont Ave.

BRONX
Authorized A.F. & Penn Service
HO Specialists—Repairs & Parts
Boats—Planes—Cars—Motors & Kits
"Foremost in the Field"
Long Island's largest hobby suppliers
THE CHESTER
MODEL & HOBBY CENTER
1 Block South of Zerega Station
Bronx, N. Y.

FLUSHING
SKIPS
ISLAND HOBBY SHOP
"Foremost in the Field"
Long Island's largest hobby suppliers
177-03 Union Tpke. JA 6-7562

Jamaica: T. R. Herman*, 89-13 Sutphin Blvd.

Flushing—Pleasure Mart Inc.
161-23 Crocheron Ave.

JAMAICA
Everything in Hobbies. All gauges. Model
& Tinplate. Specializing in Repair work.
Daily 10 to 8 P.M., Sat. 9 A.M.-8 P.M.
Mon. & Fri. 10 to 10 P.M.
JAMCO
(Jamaica Co. Hobbies Inc.)
179-29 Hillside Ave. JA. 3-9140

Albany—Palace Hobby Center
27½ Clinton Ave.
Binghamton: Bridges*, 339 Main
Binghampton; Kern's Hobbies, 12 Court St.
Buffalo: Burd's*, 3044 Delaware Ave.

BUFFALO
NEW YORK—BUFFALO
HO Headquarters
Lionel & Amer. Flyer—Operating HO pike
Open daily
10 a.m. to 9 p.m.—Closed Wed.
FRONTIER HOBBIES
3183 Bailey Ave. AMherst 8608

BUFFALO
Visit Buffalo's Pioneer Hobby Shop
For Models—Hobbies—Crafts
Open daily 9:30-5:30 Except Sun & Wed.
Open Fri. nites 'till 9:00
HOWARD E. RUTH
1466 Genesee St. TA 4126-1433

Fredonia: Hobby Shop*, 224 W. Main

Freeport—Nassau Hobby Center
Great Neck: Ever Best*, 33 Middleneck Rd.

HUNTINGTON
HO Railroad Center. Service Parts, and
advice. American Flyer Service Station.
Hours 9:30-5:30.
Approved Mantua-Tyco Serivce Station
HARVEY CAMERAS
327 Main St. Hamilton 1-4320

Nassau's Hobby Dept. Store
35 Church St.
Levittown: Sirkin Camera',
2702 Hempstead Tnpk.

Patchogue—Handicraft Hobby Shop
156 W. Main St. PAtchogue 2193

Rochester—Carl's (HO) Train House
1310 Clinton Ave. N. COngress 47-06
Ridgewood: Nagengast*, 6802 Fresh Pond Rd.

Rochester—Erwin's Train Shop
30 Cambria Rd. CO 9468

ROCHESTER
SCALE—Tinplate, Lionel Factory &
American Flyer
Approved Service. Manuacturers of
Gargraves Trackage. Exclusively model
railroading equipment.
"TRAIN DOCTOR" GARDNER
2261 Dewey Ave. GLenwood 2847

Rockville Center: Spiewak's Craft,
280 Sunrise Hwy.

Troy—Nash's Hobby Shop
642 Pawlins Ave.
Schenectady: Hobbies*, 1204 Eastern Ave.
Syracuse: Sam's Hobby, 320 S. Warren
Uniondale, L. I.: Card & Craft*, 1004 Front
Utica: Cornhill Hobby*, 336 James
Westbury: Westbury Camera*, 276 Post Ave.
Williston Pk: Willis Craft*, 332 Hillside Ave.

NORTH CAROLINA
Charlotte—Johney's Hobby House
Fourth & Church Phone 44188

OHIO

CINCINNATI
90% complete stock of HO supplies
Your Model Train Shop
11-9 Daily — 9-9 Saturday
Mantua-Tyco Authorized Service Station
SATTLER'S HO DEPOT
1510 Cedar Ave. MU 1-0186

Cincinnati—Westwood Hobby Shop
3332 Dartmouth Dr. GR 1-9777

Cleveland—Red's Hobbycraft
7804 St. Clair Ave. HE 1-0719

CLEVELAND
Nation's largest, most complete stock of
all scale gauges, Lionel, AF Kits, Used,
O & HO Custom Built—50,000 parts!
Downtown Cleveland—Mon. till 9 p.m.
THE HOBBY HOUSE, INC.
800 Huron Rd. Cleveland 15, Ohio
Superior 1-3210

Cleveland; Paul's Bike & Hobby, 797 E. 152

CLEVELAND
Authorized American Flyer Sales and
Service — HO — S — O
Daily 11 to 8 p.m.; Sunday to 2 p.m.
WEST 25th HOBBY and CYCLE
3166 W. 25th St. SH 1-2656

CLEVELAND
Lionel Specialists
Authorized Sales—Service—Parts
New and good used equipment
RIEDEL'S RAILROADIANA
1040 Babbitt Rd. & NYC RE 1-0240

Dayton—Baker Modelcraft*
3128 Smithville Rd. KE 3559
Columbus: Nworb's*, 3243 Whitehead Rd.
Dayton: Hobby Center*, 1206 N. Main
E. Cleveland: Jaye & Jaye*, 1475 Euclid Av.
Finlay: Finlay Hobby*, 115 S. Main
Garfield Heights: Ed's*, 4865 Turney Rd.

Kent—Ed Beckwith Trains
235 E School St. OR 3-6661
Lakewood; Wings Hobby Shop
17114 Detroit Ave.
Loraine: Hobby Shop*, 806 B'way
Massillon: Schrock's*, 3256 Lincoln Way
Middletown; Danny's Train Repair
200 Shafor

Niles—Harry's Hobby House
54 E. State St. OLympic 2-5292

Salem—V & F Pets Hobbies
Country Club Drive
Sandusky: The Craft Shop*, 217 W. Water
S. Euclid: Nacy's*, 4481 Wayfield Rd.
Tiffin: McDade's Hobby*, 27 E. Market
Toledo: Hobby Center*, 702 Madison Ave.
Youngstown; Amer's Hobby Shop
1326 Market St.

OKLAHOMA
Oklahoma City: Campbell's*,
1906 N. Classen Blvd.
Stillwater: Stillwater Model*, 915 Main St.

OREGON
Portland: Vic's Hobby*, 1730 N.E. 40th Ave.
Portland: Western Photo*, 2366 W. Burnside
Roseburg: Lester's*, 344 N. Jackson St.

PENNSYLVANIA
Allentown: Hobby Center*, 645 Tilgham
Allentown: Bloch's Hobby*, 22 N. 8th St.

Altoona—Shelow's Hobby Supplies
1313 12th Avenue Phone 3784
Beaver Falls: McCue's*, 703—24th St.
Bethlehem: Mac's*, 315 W. Fourth St.

Bristol—Bristol Model Shop*
1031 Pond Rd. ST 8-2579
Butler: Reed's*, 215½ So. Main

Coraopolis—George Michael
Hobbies—Toys
507 Mill Street AM 4-5520

Dubois—Way Office Supply Co.*
9 N. Brady St. Phone 1510
Collegeville: Richards*, Rt. 422
Collingdale: Brosius Bros*, 55 MacDade Blvd.
Drexel Hill: Pilgrim Hobby*, 1053 Pontic Rd.
Duquesne: Stone's*, 78 N. First St.
Easton: Hobby Hangout*, 509 Northampton St.
Feasterville: Jax Cycle*, Bustleton Pike
Hanover: Strickler's*, 514 B'way
Hatboro: Hatboro Hobby*, 11 E. Moreland Ave.
Hazelton: Hobby Haven*, 128 N. Wyoming St.
Indiana: Dermitt's*, 564 Phila. St.

Johnston—Westmont Hardware
Westmont Shopping Center
Johnstown: Buck's*, 334 Washington St.
Latrobe: Smith's RR Shop*, 515 Depot
Lansford: Barney's*, 718 E. Ridge St.
Lewistown: Long's*, 7 Valley St.
Middletown: Hummert's*, 146 Columbia St.
Millvale: Esther's*, 219 North Ave.
New Castle: Menken's*, 125 N. Mill
Norristown: J. Dorazio*, Route 2
Norristown: Norristown Hobby*,
417 W. Marshall

McKeesport—Oddo's Hobby & Train
Center
338 Shaw Ave. OR 8-5137

Norristown—Ned Salter
612 W. Marshall St. BR 5-3260

Philadelphia—Joseph B. Nagrant Hobby
3218 N. Bailey St. BAldwin 9-8714

Philadelphia—Richard Francis Hobbies
5815 Woodland Ave. SA 9-1266

Philadelphia—Hill Cycle Shop
8135 Germantown Ave.

PHILADELPHIA
Leading Hobby Railroad Center
Marklin Fleischman, Lionel, AF—Com-
plete line HO kits, accessories
Authorized service station for all trains
NICHOLAS SMITH
60 N. 11th St.

Philadelphia—Snellenburg's Hobby &
Craft
Center, 12th & Market RI 6-4000
Philadelphia: Allied Hobbies*,
6607 Rising Sun Ave.
Philadelphia: Allied Hobbies*,
4808 Frankford Ave.
Philadelphia: E & H Model*,
130 W. Chelten Ave.
Philadelphia: E & H Model*,
7333 Frankford Ave.
Philadelphia: Elmwood*, 7116 Elmwood Ave.
Philadelphia: R. K. Haring*, 3420 N. 6th St.
Philadelphia: Hipwell's*, 328 Loney St.
Philadelphia: "Les" Meyers*, 21 So. 16th St.
Philadelphia: Mack's*, 839 Allegheny Ave.

PHILADELPHIA
PHIL EVANS—HOBBY CENTER
All makes trains and hobby supplies
Home of the unity—HO Model Engineers
HO Club—Meets Wed—8:30 P.M.
4339 Frankford Ave. CU 8-7648

Philadelphia—Green's Hobbies
261 S. 52nd Street GR 6-3333

Philadelphia—S. F. Laurent
4903 Catharine St. GRanit 6-5506

PHILADELPHIA
Everything in HO-PLUS!
QUAKER CITY HOBBIES
620 Market St. LO 3-7465

Phoenixville: J & M*, 204½ Bridge St.

PITTSBURGH
HO Scale Trains Model Supplies
Handicrafts—Greeting Cards
Schwinn Bicycles—parts—Repair Service
ASPINWALL HOBBY CENTER
351 Freeport Road STerling 1-7488

Pittsburgh: Stan's*, 1826½ Brownsville Rd.
Shillington: Shil'ton Hobby*, 423 N. Probst
Stroudsburg: The Hobby House, 502 N. Main

TO SUPPLY YOU WITH THE LATEST AND BEST IN MODEL SUPPLIES

ADVERTISING INDEX FOR MAY 1956

A

Addem Products 51
All Nation Hobby Shop 54
America's Hobby Center 4, 5
Atlas Tool Company 12
Athearn, Irvin R. 11
Ayres Scale Models 7

B

Baldwin Model Loco Wks..... 7
Bergen Elec & Products Co..... 7
Bilt Rite Models 9
Bob's Hobby Shop 54
Bowser Mfg. Co. 6

C

Central Valley Model Wks. 48
Champion Decal Co. 54
Cliff Line 10
Corr's Hobby Supply 13
Custom Craft 54

D

Delaware Valley Hobby Shops..... 54
Dorazio, Joseph 58

F

Fowler, Don 6

G

Gandy Dancer 59
Gardner, E. A. 11
Greenwich Book Publishers 54

H

H. P. Products 59
Herman Enterprises 12
Herkimer Tool & Model..... 54
Hi-Quality Model Distributors..... 58
Hobby House, Inc. 2
Hobby Publications 48

I

International Models, Inc. .....

L

Lindsay Products 48
Lionel Corp. 12
Little Engines 6
Lobaugh Scale Model Co..... 10

M

Maier, J. B. 6
Mantua Metal Products 7
McCormack, R. H. Co. 59
Model Engineering Wks. 51
Model Rail Depot 12

P

Pacific Fast Mail 9
Penn Craft Books 11

R

Roadside America 58
Rossmoyne 54

S

Schopp, Wm. M. 48
Selley, Inc. 48
Special Shapes 10
Suckert Loose Leaf Co. 50
Suydam, E., & Co. 10

T

Thomas Industries 58
Trost Model Craft & Hobbies..... 59
Tru-Scale Models 55

U

Ulrich, C. J. 8

W

Wagner Car Co. 9
Wesley Mfg. Co. 12

While every effort is made to make this index accurate, we cannot be responsible for any errors or omissions.

Localized Dealer

UPPER DARBY

TODD'S FOR TRAINS
Largest, most complete "HO"—Lionel—Am. Flyer stock in Phila. area. 17 Yrs. of successful model train sales and service—Open 10 A.M. to 9 P.M.
7036 West Garrett Road
(Terminal Square)

Wilkes-Barre: Mooney*, 165 Loomis
Williamsport: Bob Thompkins*, 7 W. 4th St.
York: Model Craft*, 115 S. George St.

YORK

All nationally advertised kits and supplies HO and S Gauge Specialists
Hours 1 P.M. to 9 P.M.
Sat. 10 A.M. to 9 P.M.
CHECKERED FLAG MODEL SHOP
602 E. Market St. Phone: 34589

SOUTH CAROLINA

Spartansburg: Littlejohn*, 414 W. Main

TEXAS

Dallas: Halls Hobby House
4823 Bryan St.—2267 Gus Thom. Rd.

AMARILLO

A Full line of Lionel — Am. Flyer — HO Trains — Auto, Boats, Planes — kits
Call anytime, day or night
SMITH'S HOBBY SHOP
3805 Tyler Phone: 2-5027

MIDLAND

HAWK HOBBIES
"Everything For Every Hobby"
105 No. Pecos Ave. Phone: 2-8534

El Paso: H&H Hobbies*, 3902 Pershing Dr.
El Paso: Fred Lind*, 1710 E. Yandell Blvd.
Houston: G&G Model*, 2522 Times Blvd.
San Antonio—Jefferson Hobby Shop
206 Broadway CApitol 7-7632

UTAH

Salt Lake City—Douglas Model Aircraft
133 E. 2nd So.

VIRGINIA

Alexandria: George*, 1131 King St.
Arlington: Arlington Hobby*,
625 N. Glebe Rd.

WASHINGTON

EVERETT

Complete HO—TT—Planes—Boats
"Know-How"
EVERETT MODEL SHOP
(With Coy's Toys)
2605 Colby Ave. Cedar 1216

Seattle—Buzz & Doug's Hobby Shop
605 Pike St. MA 8699
Seattle: Model Eng*, 9524 Roosevelt Way
Seattle: North End Hobby, 9524 Roosevelt

SEATTLE

NORTHWEST'S
LARGEST HOBBY SHOP
Complete line of
Trains—Airplanes—Ships—Racecars—Supplies
Hobby Craft
Seneca 1234—The Bon Marche
Seattle, Wash.

Spokane—Doc's Model & Hobby Shop
N. 1225 Monroe BR 2165

WEST VIRGINIA

BELLE

Hobby Center for the Kanawha Valley
Trains Planes Crafts
Train Repairs Custom Building
BROWNIE'S
MODEL RAILROAD EQUIP.
2001 W. Riverview Dr. WI 92-385

Huntington: Phillips, 1317 Charleston Ave.
Parkersburg: Wilson, 326 Juliana St.
Oak Hill—Rosemont Flowers & Hobbies
Hamilton Bldg. Phone: 630
Wheeling—The Hobby House Inc.
1209 Chapline St.

WISCONSIN

Fond Du Lac—Friess Studio & Hobby Shop
27 N. Main St. Phone 5742
Green Bay—Bay Craft & Hobby
517 Forest Green Bay, Wis.
La Crosse: George Tire*, 218 S. 3rd
Milwaukee: Garfield*, 2971 N. 3rd
Milwaukee: Jim Grace*, 3384 N. Green Bay
Neenah—Hobby Craft Shop
115 E. Wisconsin Phone 2-9191
West Allis—Garman Radio & Hobby Shop
8214 W. National Ave. GR 6-1412

West De Pere: Rabideau, 320 Main Ave.
Beaver Dam—Mac's Hobby Shop
226 S. Spring St. Dial Turner 5-5816
Superior—Andy's Hobby Shop
1715 Belknap Street
Waukesha: Hobby Horse*, 839 Gaspar

WYOMING

Cheyenne—A-1 Service Toy Trains
4007 Warren Ave.

CANADA

Belleville: Doug's Hobby Shop, 338 Pinnacle
Brantford: The Hobby Shop, 51 George St.
Calgary: Universal*, 623A 8th Ave. W.
Edmonton: Moro Craft, 10824-82nd Ave.
Hamilton: Riley*, 755 King St.

LONDON, ONTARIO

Model Railroad and Hobby Supplies
Planes — Boats — Cars — Hobby Tools,
Special orders taken.
Hrs. 9-6; Eves. 2-3094
FRANK THOMPSON
MODEL SUPPLIES
347 Talbot St. Dial 2-3094

Ottawa: Hobby Shop*, 123 Fredrick
Ottawa: Model RR*, 308 Laurel Ave. W.
Toronto: Pioneer*, 973 Coxwell Ave.

TORONTO

Scale Model Railroad Kits and Supplies
9:30—5:30 Daily—Friday 9:30-9:00
BURDEN'S HOBBY LOBBY
2311 Yonge St. HU 8-8880
114 Dundas St., W EM 6-3244

WINNIPEG

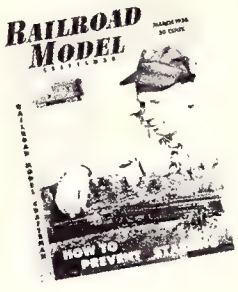
HO Train Sets & Kits, Tools, Supplies
Authorized Sales & Service
Lionel Mantua Tyco American Flyer
THE HOBBY SHOP
Sheane & Son
42 Albert St. Phone 93-8116

THE HAWAIIAN ISLANDS

HONOLULU 6

HO Trains, Accessories
Models—Planes—Boats—Cars
Bicycles—Sales—Repairs
Authorized Mantua-Tyco Service Station
CYRIL'S HOBBY CRAFT
1208 Ninth Ave. Phone: 795015

Help us To Help You!



RAILROAD MODEL CRAFTSMAN

If your local dealer does not stock copies of Railroad Model Craftsman each month or if he continually runs out before you can obtain your copy, send us his name and address. We'll make sure he receives a complete supply of Railroad Model Craftsman magazines each month, just as soon as they are issued. Put the name and address of your dealer on a post card and send to:

Circulation Department, Railroad Model Craftsman, Ramsey, New Jersey.

PATRONIZE YOUR LOCAL DEALER

TO SUPPLY YOU WITH THE LATEST AND BEST

7—Dab several liberal applications of Solvaset or Decal-Set onto and around decals. This softens film base of decal, allows decal to snuggle firmly to model, especially around rivets, scribing, curved surfaces, and any irregularity . . .

8—Finish up with a clear protective coating. Glaze, clear acrylic spray, clear dull varnish, etc., are all good, depending on finish desired on model . . .

YOUR OWN ROAD NAME IN DECALS: Champion Decals offer common stock words which can be made up into any special road name desired. See catalog. Russ Clover also offers your own road name specially printed in various styles and colors. William K. Walthers, Inc., offers both heralds and road names.

SPECIAL STRIPING: Decal stripes in many shapes and colors are available from both Champion and Walthers in HO and O.

THINGS TO WATCH: Decals usually go on easily. Old decals and occasionally multi-colored decals may crack when applying. These cracks are unnoticeable when decals have been put in place and decal solvent applied. Just use care in applying. Decals not treated with solvent and/or protective coating may in time fall off. Coating also acts to eliminate any film shine.

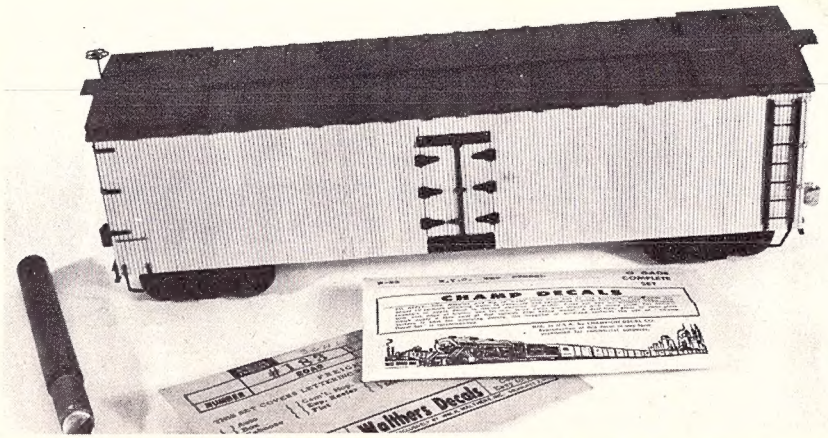
FOLD HERE AND PUNCH FOR BINDING

picture lessons in model railroading

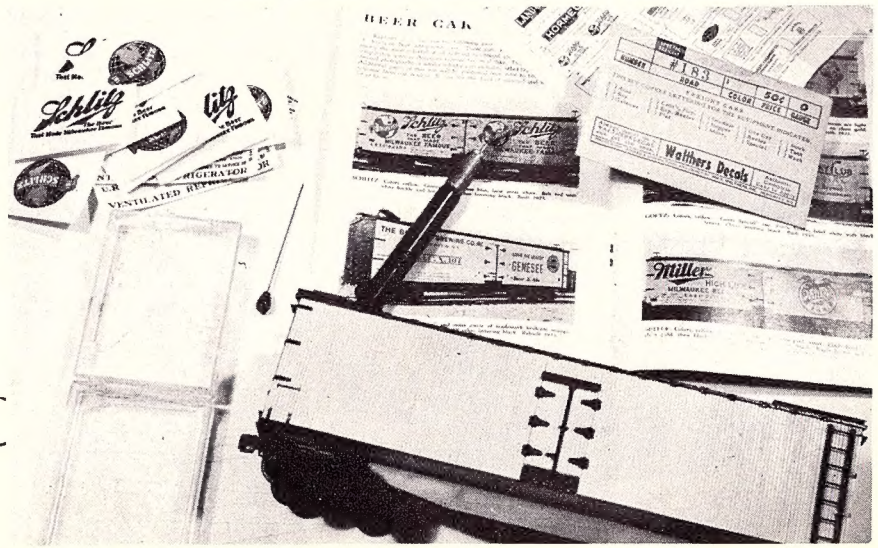
RAILROAD MODEL CRAFTSMAN

course no. 6

Applying Decals

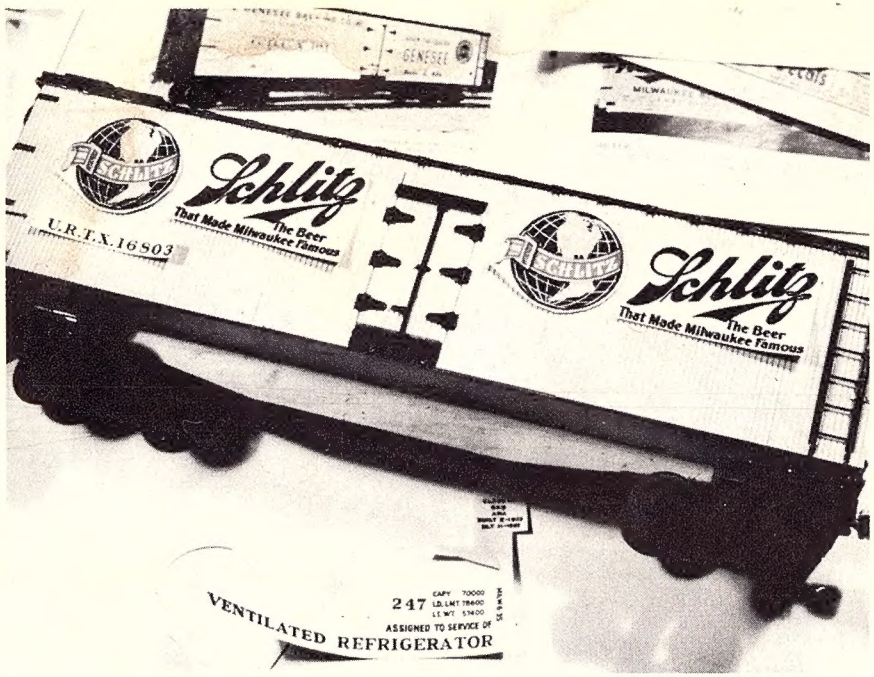


1—When paint on model is dry, car is ready for lettering. Decals are best for most modelers since they are easy to obtain, economical, clean, and have tremendous variety in all gauges. Most hobby shops stock them; also manufacturers and mail order houses . . .



2—Decals are packed according to scale, road name, car type, and period. When lettering car, try to have authentic guide or photo of prototype car before you . . .

FREIGHT CARS

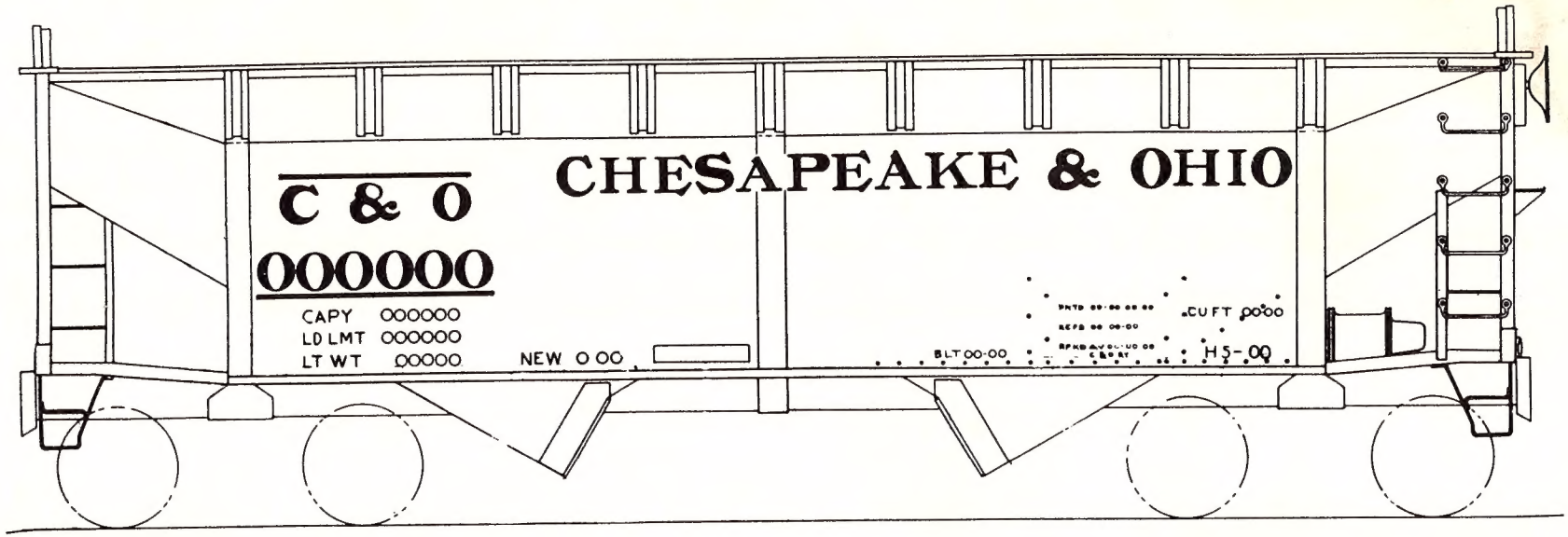


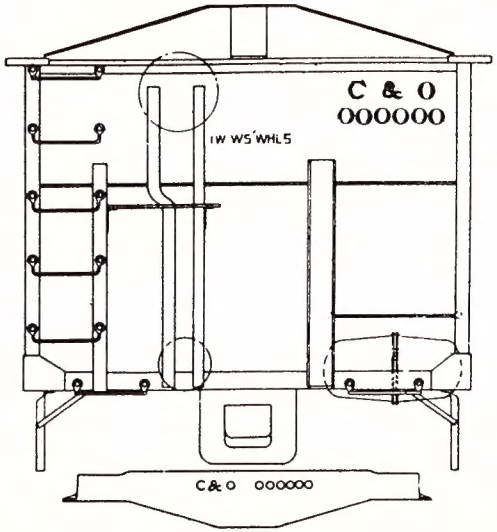
3—Cut decals apart as needed, making cuts as close to letters as possible. Lay decals out on car to see if they will fit . . .

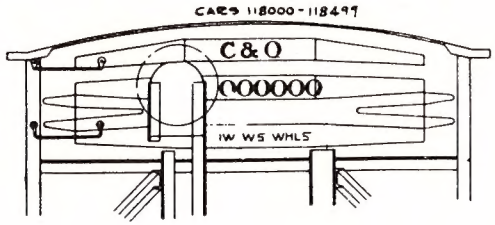
4—Dip decals in shallow pan of water as recommended on envelope, about 15-30 seconds. Do not oversoak . . .

5—Decals should be soaked through thoroughly and slide right off of backing surface onto car . . .

6—A large needle, scriber, or similar pointed object is used to slide decal into position. When in position, blot up water with a corner of a handkerchief, or use blotter . . .





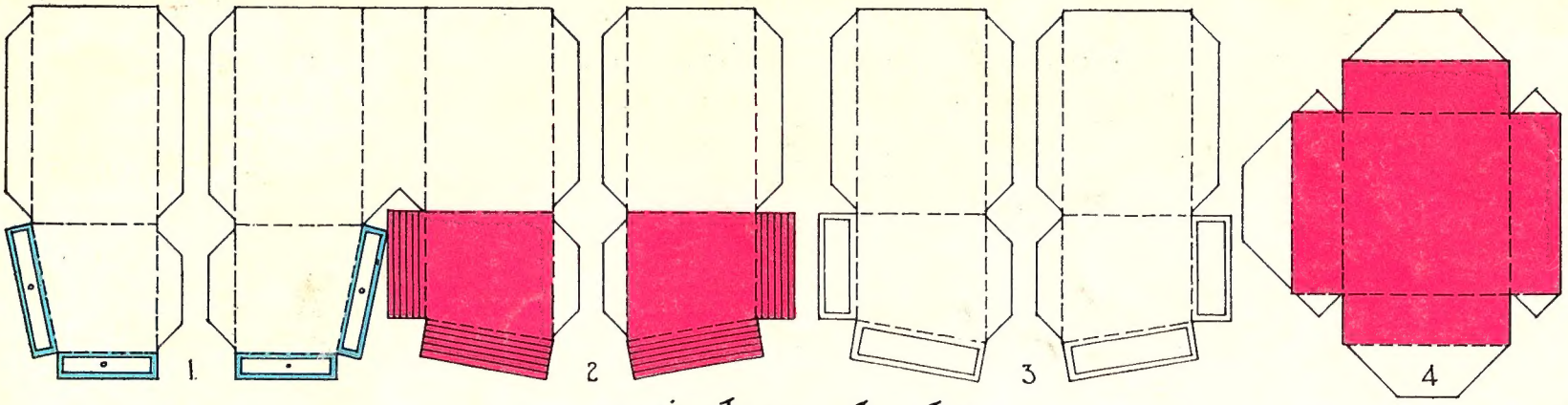


50 TON HOPPER

Plans shown
full size O gauge

The C & O fifty-ton hopper car is built with two different types of ends, as the plans show. Both have Ajax brake wheels

C AND O



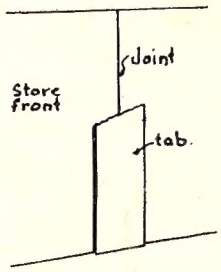
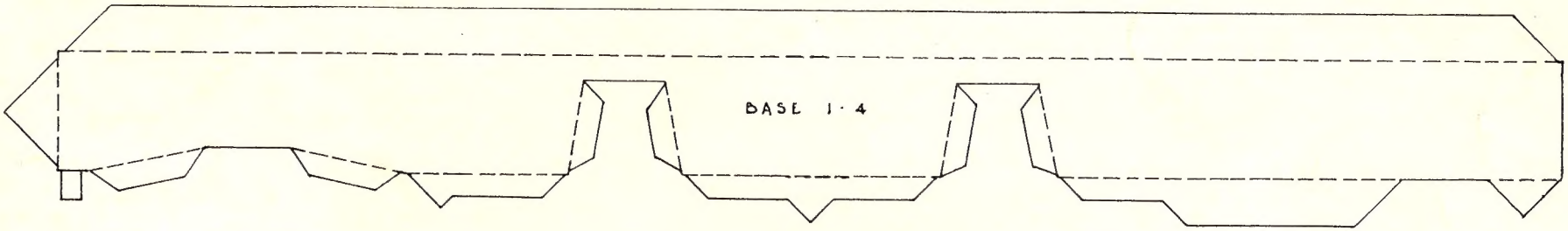
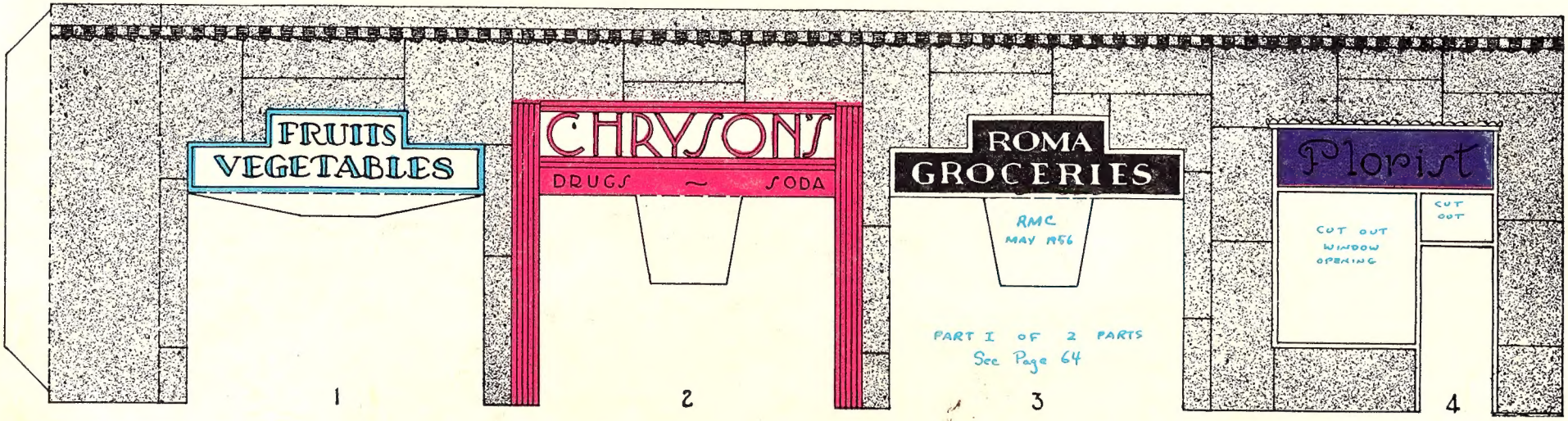


FIGURE #1

window backs





PART I OF 2 PARTS

See Page 64